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THE VIDEO

Operations Manual

- * Game Operation & Adjustments
 * Game Testing & Problem Diagnosis
 * Parts Information
- * Wiring Diagrams & Schematics

TERMINATOR 2 Game Rules

You need two credits to start a game, and one credit to continue.

For a single player game press either of the Red, Player 1 Start Buttons after coins have been inserted.

For a two player game, press either of the Red, Player 1 Start Buttons and, either of the Blue, Player 2 Start Buttons after coins have been inserted.

Press the trigger to shoot at targets. Press the Red Bomb Button on the gun to launch rockets. Pick-up "Power-ups" by shooting them.

Mission 1

In the future... Join up with Sgt. John Connor - leader of the Human Resistance - to destroy the Machines of Skynet. Infiltrate Skynet Headquarters to ultimately control the Time Field Generator.

Mission 2

In the present... Sent back through the Time Field Generator to protect young John Connor at all costs! Destroy Cyberdyne Systems to save the world from Judgment Day!

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THE SPECIFICATIONS AND PARTS IDENTIFIED IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE.

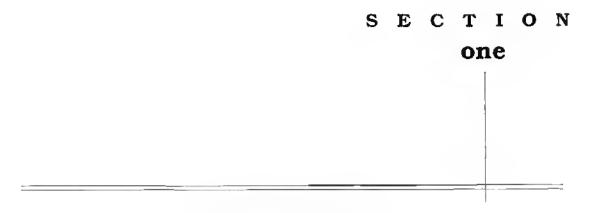
Terminator 2

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Terminator 2



Operation

Safety Notices

The following safety instructions apply to all game operators and service personnel. Specific warnings and cautions will be found throughout this manual where they apply. We recommend that you read this page before preparing your game for play.



AC POWER CONNECTION. Before connecting the game to the AC power source, verify that the "line voltage selection chart" jumper wires are installed correctly for the line voltage in your area. For details, refer to Section 3.

PROPERLY GROUND THE GAME. To avoid electrical shocks, do not plug in the game until it has been inspected and properly grounded. MIDWAY games should only be plugged into a grounded 3-wire outlet. Shocks will also result, if the control panel is not properly grounded! After servicing any parts on the panel, assure that the ground wires are secure. Only then should you lock up the game.

DISCONNECT POWER DURING REPAIRS. To avoid electrical shock, disconnect the game from the AC power source before removing or repairing any part of the game.

USE THE PROPER FUSE. To avoid electrical shock, use the replacement fuse which is specified in the parts list for this game. The replacement fuse must match the original fuse in fuse type, voltage rating, and current rating.

MONITOR PRECAUTIONS. When removing or repairing the monitor, extra precautions must be taken to avoid electrical shock because high voltages may exist within the monitor circuitry and cathode ray tube (CRT) even after power has been disconnected. Do not touch internal parts of the monitor with your hands or metal objects! Always discharge the CRT by the following method: Attach one end of a large, well-insulated, 20-kV jumper to ground. Momentarily touch the free end of the grounded jumper to the anode by sliding it under the anode cap. Wait two minutes and discharge the anode again.

HANDLE FLUORESCENT TUBE AND CRT WITH CARE. If you drop a fluorescent tube or CRT and it breaks, it will implode! Shattered glass can fly eight feet or more from the implosion.

ATTENTION!

PROPERLY ATTACH ALL CONNECTORS. Make sure that the connectors on each printed circuit board (PCB) are properly connected. If they do not slip on easily, do not force them. A reversed connector may damage your game and void the warranty. All connectors are keyed to fit specific pins on each board.

Setup Procedure

INSPECTION & INSTALLATION

- 1. Remove all items from shipping container and set them aside. Inspect the exterior of the cabinet for any damage. Remove the shipping cleats from the bottom of the cabinet.
- 2. Remove keys from the taped coin return slot. Unlock and open the coin and cash box doors. (Leg levelers and spare parts are stored in the cash box.)
- 3. Tilt or lay the cabinet down. Locate the four threaded holes on the bottom of the cabinet (one in each corner), and Install one leg leveler (with its hex nut) in each hole.
- 4. Stand the cabinet upright and make certain that it is in a stable position. Level the cabinet.
- 5. Remove the rear door of the cabinet. Inspect the interior for any signs of damage. Check all major assemblies to assure that they are mounted securely.
- 6. Refer to the game's Cabinet Wiring Diagram (Section 3), and check to see that all cable connectors are correctly secured. DO NOT FORCE CONNECTORS. Watch for damaged connectors and avoid making reversed connections.
- 7. Determine the value of your line voltage with a meter. Then, check the power input wires to the main power supply transformer on your game to be sure they are connected to taps which correspond to your local line voltage value. If necessary, reconnect the power input wires to the transformer in accordance with the Transformer Chart in Section 3.
- 8. Lay the line cord (connected to the Power Chassis) in the slot along the bottom edge of the rear cabinet door. Replace the rear cabinet door and screw (lock) it securely. Close and lock the front coin and cash box doors.
- 9. Plug the line cord into a grounded (3-terminal) AC wall outlet.
- 10. Switch On the game, using the On/Off switch located on the upper left rear of the cabinet, to verify proper operation.
- 11. If the following message appears on the screen when the game is turned On, the guns must be calibrated.

CMOS RAM Error
Unable to read gun calibration values.

Do not attempt to calibrate by opening the guns and adjusting the potentiometers manually. Guncalibration instruction are on page 1-25 of this manual.

Game Location Requirements

<u>Power</u> Domestic 115V @ 60 Hz Foreign 230V @ 50 Hz

<u>Temp.</u> 32° F to 100° F (0° C to 38° C)

Humiditu
Not to exceed 95% relative.

Height of game Apx. 74"

Weight of game Apx. 300 pounds

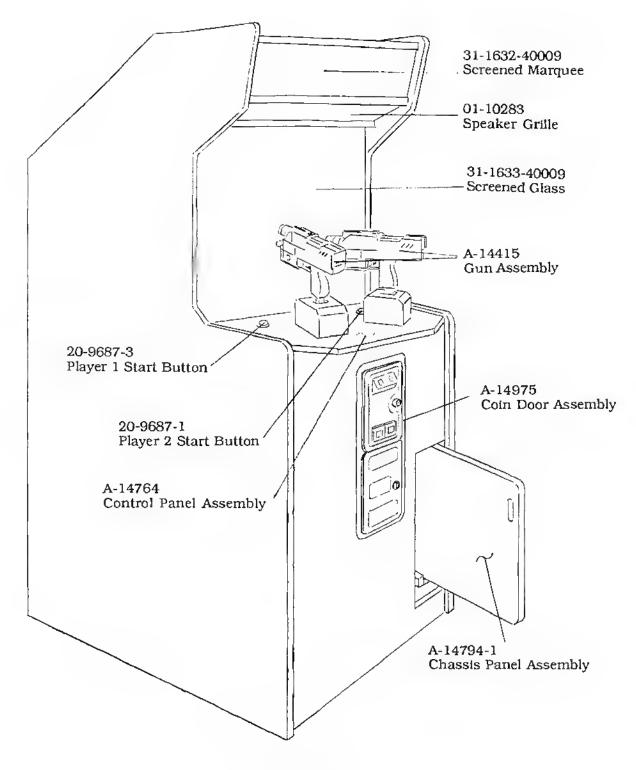
Note

Check Gun calibration when you receive your game. Guns might of been jarred during shipping and need to be recalibrated.

Note

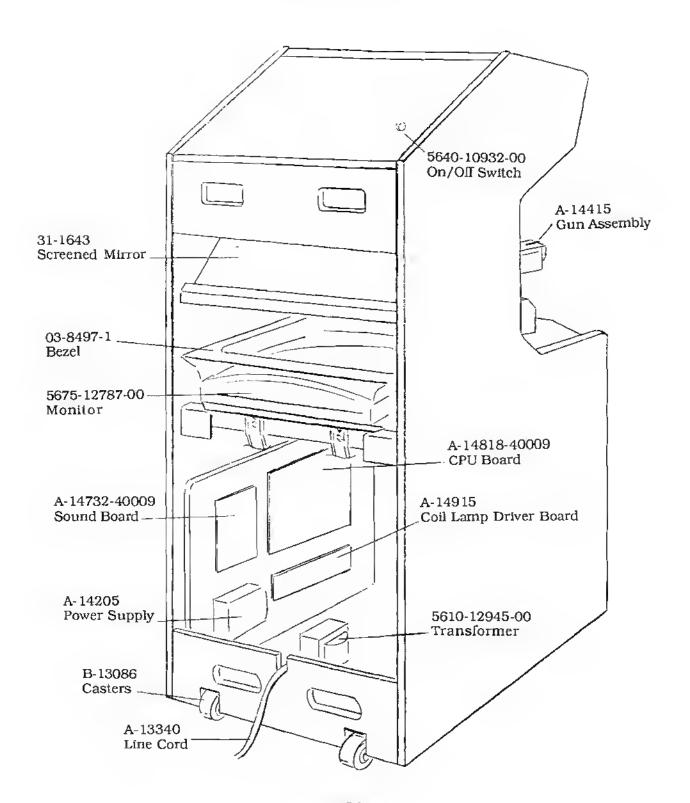
The Gun Assemblies are calibrated from the factory. However, if you change boards or replace ROMs, RAMs, or the battery, you must recalibrate the guns. Guns do not operate unless they are calibrated.

Cabinet Assembly



Front View

Cabinet Assembly



Rear View

Servicing

Note

To remove the control panel for bench servicing, reach through the coin door opening and release the latches located on the sides of the control panel. Be careful not to reach straight back through the coin door opening as you might damage the Monitor Control Board. Carefully, tilt the control panel forward until the guns rest against the viewing glass. Disconnect the cables and the ground strap. Lift the control panel out of the game cabinet.

Caution

The monitor DOES NOT contain an isolation transformer in its chassis (it is mounted instead in the Power Chassis Assembly located on the floor of the cabinet). When servicing the monitor on a test bench, YOU MUST ISOLATE THE MONITOR FROM THE LINE VOLTAGE WITH AN ISOLATION TRANSFORMER.

Caution

While removing the four bolts, firmly support the monitor from the front of the CRT so that it will not slip.

■ Servicing the Control Panel

Switch Off power to the game. The control panel is held in place by four latches (located inside the cabinet, on the left and right sides of the control panel) which provide constant pressure on the strikes. The latches can be reached through the coin door opening. To release the latches, lift the latch handle and unhook the wire fasteners. Carefully, use the guns to lift the control panel. Carefully, tilt the control panel forward until the guns rest against the viewing glass. THIS CONTROL PANEL DOES NOTHAVE A SUPPORT BRACKET. To reinstall the control panel, check for proper cable connections, including the ground strap, and use the guns to lower it into position, avoiding pinched wires. Reclamp the latches.

Servicing the Chassis Panel

Switch Offpower to the game and open the coin door. The chassis panel is accessible through the front door. The front door is held in place by the same type of latch that holds the control panel. The latch, located at the top of the front door, can be reached through the coin door. Lift the latch handle and unhook the wire fastner. Push the front door from the inside of the cabinet and remove it. Use the hand hole to slide the chassis panel forward.

Removal of Viewing Glass

Switch Off power to the game, and open the control panel. Carefully lift the glass from its bottom groove and lift it clear of the cabinet.

Removal of Monitor Bezel

Switch Off power to the game. Remove T-15 torx screws holding the rear door. Remove the rear door. Remove the four screws holding the bezel. Lift the bezel off the monitor.

Monitor Replacement

We recommend that you read the WARNINGS section thoroughly before beginning this procedure.

Switch Off power to the game. Remove the rear door, the viewing glass and the monitor bezel. Completely disconnect the monitor from all of its cabling, including its chassis ground strap. Remove the four bolts securing the monitor's mounting flanges to its mounting panel. Pull the monitor carefully from the back of the cabinet.

Flashlamp Replacement

Switch Off power to the game. Open the control panel in order to remove the viewing glass; then, replace the control panel. Open the rear door. Remove the two screws holding the mirror retainer. Carefully, pull the mirror retainer out of the cabinet. The flashlamp boards are accessible from the front of the cabinet once the mirror is out.

Removal of the Marquee

Switch Off power to the game. Remove the five #8 hex washer head screws in the black plastic strip on top of the cabinet. Remove the strip and carefully lift the plastic marquee and the clear glass. Store the marquee and glass carefully to prevent damage.

The fluorescent tube is now accessible for replacement. Grasp the tube, give it a quarter turn, and remove it from its socket. Carefully place a new tube into the socket, and turn to reinstall.

Removal of the Fluorescent Light Assembly

Switch Offpower to the game. Remove the marquee glass. Disconnect the fluorescent light assembly from its power cable. Remove the screws fastening the assembly to the cabinet and lift out the assembly.

Removal of the Speakers

Switch Off power to the game. Remove the marquee. The speakers pull out from the front of the cabinet. Be sure to disconnect the cabling and remove the nuts on the mounting bolts before attempting to pull the speakers out of their enclosure.

■ Volume Control, Test/Dlagnostics Switch, and Service Credit Switch

Open the coin door to locate the game's volume control and Diagnostic switches on the small panel atop the cash box cover. The Volume Control is the white knob on left end of the panel. Turning the knob clockwise increases the volume. The upper right switch on the bracket is the Test/Diagnostics Switch that enables activating the game's Menu System. The lower right switch is the Service Credit Switch, which allows adding credits to a game for service testing without affecting the game's bookkeeping total.

WARNING

If you drop a fluorescent tube and it breaks, it will implode! Use care in handling.

Game Features

STARTING UP

Switch On power to the game. A "rug" pattern appears on the CRT screen. When the "rug" patternends, the screen shows CHECKING SCRATCH RAMS, and then CHECKING ROMS. The next screen shows **Terminator 2** REVISION LEVEL, CMOS TEST OK and the COIN SETTING. The game then moves to the Attract Mode.

Insert the desired amount of coins or tokens. Select which player receives the credit by pressing the appropriate Player Start Button.

Note

When an error is detected during Start-up Tests, game start-up pauses. Press any Start Button to continue.

PLAYER CONTROLS

Start Button

Each player has two Start Buttons located on the left and right sides of the guns. The Start Buttons allow one or two players to begin or continue play.

Guns

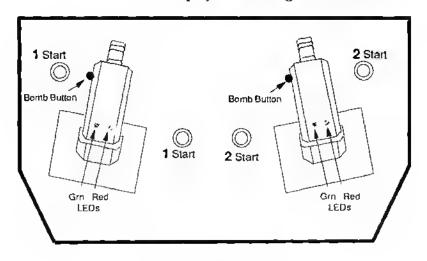
Each player has a gun. The guns allow the player to aim for and shoot at moving targets.

Bomb Button

Each player has a Bomb Button located on the front left side of their gun. This button allows the player to fire bombs at targets.

LEDs

Each player has two LEDs located on the top of their gun. The Red LED indicates the player is targeted and being shot at. The Green LED indicates that the player is on target to shoot.



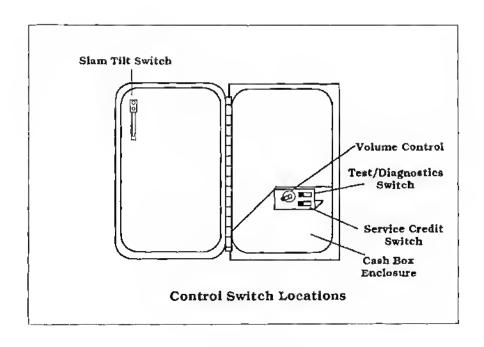
Control Panel

Game Operation

The **Terminator 2** Control Switches are located inside the coin door. These switches allow the operator to customize some features of the game.

CONTROL SWITCHES

- The COIN DOOR SLAM TILT SWITCH detects any forceful vibrations against the Coin Door. This eliminates pounding for free games.
- The **VOLUME CONTROL** allows increasing or decreasing the volume level of the game music and speech. For greater profits, set your game's volume level at its maximum.
- The TEST/DIAGNOSTICS SWITCH allows you to activate the game's Menu System. Move the Test Switch to access the Main Menu. To exit the Menu System, select EXIT TO GAME OVER from the Main Menu, then press either trigger to activate your selection.
- The **SERVICE CREDIT SWITCH** is a special feature switch that allots credits without affecting the game's bookkeeping total.



Menu System Operation

OPERATION

All Game Audits, Adjustments, and Diagnostics are options of the Main Menu. Each option, in turn, has its own menu, listing several choices that you may act upon as desired.

Move the Test Switch (on the cashbox lid panel), or close Switch #8 of DIP Switch Bank #2, to activate the Main Menu (shown below). Game adjustments, bookkeeping, and diagnostics are all accessible from this menu.

Press either Player 1 Start Button to move up the menu. Press either Player 2 Start Button to move down the menu. Notice that the options are highlighted in sequence. Press either trigger to activate a highlighted option.

Note: Only highlighted options can be activated.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

DIAGNOSTIC TESTS

COIN BOOKKEEPING

GAME AUDITS

GAME ADJUSTMENT

UTILITIES

CALIBRATE GUNS

EXIT TO GAME OVER

Maln Menu

DIAGNOSTIC TESTS

To enter the Diagnostic Tests from the Main Menu, press any Start Button to select (highlight) the Diagnostic Test option, then, press either trigger to activate the option.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

SWITCH TEST

DIP SWITCH TEST

CPU BOARD TEST

SOUND BOARD TEST

MONITOR PATTERNS

DRIVER BOARD TEST

BURN-IN TEST

RETURN TO MAIN MENU

Diagnostic Menu

Switch Test

The Switch Test allows the operator to test the switches on the control panel and the coin door.

During the Switch Test, the top of the screen is black and the bottom of the screen shows the coin door switches. Pressing a Start Button or trigger causes the name of the switch activated to light on the top of the screen. Pressing a coin door switch causes the switch location activated to light on the bottom of the screen. Releasing the switch causes the location to return to normal.

Press a Player 1 Start Button and Player 1 Trigger to return to the Diagnostic Menu.

DIP Switch Test

The DIP Switch Test allows the operator to check the position of the two 8-position DIP Switches on the CPU Board. The operator can also change the setting of each position of each DIP Switch during this mode.

Use any Start Button to select the DIP Switch Test and either trigger to activate it. The screen displays a layout of their current settings.

To change a DiP Switch setting, press the switch to the desired setting, then press the reset button on the CPU next to the DiP Switches. Check the screen to verify that the switch now shows the new setting.

Press either trigger to return to the Diagnostic Menu.

DIP Switch 1 Settings Table

	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8
Mirror Display Mirror Non-mirror	Off *							
Coinage DIP Switch CMOS		Off •			qui Million		decoloration (
Coin Sett USA 1 Ger 1 USA 2 Ger 2 USA 3 Ger 3 USA 4 Gcr 4 USA ECA Ger EC N/U N/U N/U N/U Free Play Free P	Fr Fr Fr Fr CA Fr N/ N/	2 3 4 ECA U	Off * On Off On Off On Off On	Off • Off On Off Off Off On	Off Off Off Off On On On			
Not Used						Off • On	Off • On	Off • On

DIP Switch 2 Settings Table

	SWI	SW2	SW3	SW4	SW5	'SW6	SW7	SW8
USA German French Not Used	Off * On Off On	Off * Off On On		hi.				
Not Used			Off • On					
One Counter Two Counters) (1)		Off •				
2 Players 1 Player					Off *			
Not Used			2			On On		
Video Freeze							On •	
Test Switch Game Mode Test Mode	jiril .							Off•

^{*} Indicates Factory Setting.

CPU Board Test

The CPU Board Test (much like the Start-up Test) allows the operator to check the RAMs and ROMs.

Select the CPU Board Test with any Start Button then, press either trigger to activate the automatic test of the CPU Board's RAMs and ROMs. When this test is activated, a "rug" pattern appears on the screen. The screen then changes to show the layout of the RAMs, and ROMs on the CPU. Any chip that is shown as black with a white outline is part of the CPU and should turn either red or green during the CPU Test. Any chip that is shown as gray with a white outline is not installed in the game. During the test, chips are good, if they turn green; they are faulty, if they turn red.

Press either trigger to exit back to the Diagnostic Menu.

Sound Board Test

The Sound Test allows listening to some of the sounds that the game is capable of producing. This test also emits a tone for each fault that is detected.

Select the Sound Board Test with any Start Button then, press either trigger to activate the test. The screen displays two test options:

GENERAL TEST analyzes the sound circuitry. A successful test causes a single "tone" to sound. Detection of a fault causes a series of tones or no tone at all to sound. To enter this test, or exit back to the Sound Test Menu, press either trigger.

PLAY SOUNDS tests synthesized & digitized sounds from the Sound Board. Enter and advance through this test by pressing either trigger. Repeat a sound by pressing the Bomb Button. Exit this test by pressing any Start Button.

Select RETURN TO MAIN MENU or BACK TO DIAGNOSTIC MENU with any Start Button. Press either trigger to activate your selection.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

GENERAL TEST

PLAY SOUNDS

BACK TO DIAGNOSTICS MENU

RETURN TO MAIN MENU

Sound Test Menu

Monitor Patterns

The Monitor Patterns Test provides a menu for testing the monitor. Select the test with any Start Button and activate it with either trigger. Once the Monitor Test is activated, use any Start Button to select a Monitor Test option; press either trigger to activate the option.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

RED SCREEN

GREEN SCREEN

BLUE SCREEN

COLOR BARS

CROSSHATCH PATTERNS

BACK TO DIAGNOSTICS MENU

RETURN TO MAIN MENU

Monitor Pattern Menu

The **RED**, **GREEN**, and **BLUE SCREEN** tests fill the screen with either red, green or blue. Select a screen test with any Start Button. Press and hold either trigger to see the color screen. Release the trigger to return to the Monitor Pattern Menu.

The **COLOR BARS** test fills the screen with several shades of colors to help with red, green and, blue level adjustments. Each color should appear sharp and clear. Press and hold either trigger to see the color bars screen. Release the trigger to return to the Monitor Pattern Menu.

The **CROSSHATCH PATTERNS** test fills the screen with a grid and a series of dots. The grid and the dots should be clear. The dots should appear round. Press and hold either trigger to see the crosshatch patterns screen. Release the trigger to return to the Monitor Pattern Menu.

If any of the Monitor Pattern Tests shows a need for adjustment, use the proper white knobs on the Monitor Board.

Use any Start Button to select RETURN TO MAIN MENU or BACK TO DIAGNOASTIC MENU and activate your selection with either trigger.

Driver Board Test

The Driver Board Test provides the operator with a way to test the Gun Coils, the Flashlamps, and the Gun LEDs. Press any Start button to select the Driver Board Test. Press either trigger to activate the test.

This test cycles through and pulses the Gun Coils (left, then right), the Flashlamps (left side, then right side), and the Green and Red LEDs (left gun, then right gun). To stop the cycle and continually pulse a particular coil, lamp or LED, press and hold the Service Credit Switch when the desired coil, lamp or LED is activated. As each device is activated, the name is displayed on the screen.

Press any Start Button to return to the Diagnostic Menu.

Burn-in Test

The Burn-in Test continually repeats the CPU Board Test.

Press any Start Button to select the Burn-in Test; then, press either trigger to activate the test. When the Burn-in Test detects an error, the test stops and displays an error message on the screen. The Audit Table specifies the number of Burn-in cycles successfully completed. Use this test to find intermittent CPU problems.

To exit this test, switch the game Off then On again.

COIN BOOKKEEPING

To enter the Coin Bookkeeping from the Main Menu, press any Start Button to select the Coin Bookkeeping option; then, press either trigger to activate it.

The Coin Bookkeeping Table records the coinbox totals and game play counters. The left side of the table names the bookkeeping item; the right side shows the number of coins, credits, or plays for each item.

To exit Coin Bookkeeping, press any Start Button to select RETURN TO MAIN MENU; then, press either trigger to activate it.

LEFT SLOT COINS	. 0	
RIGHT SLOT COINS	. 0	
THIRD SLOT COINS	0	
FOURTH SLOT COINS	0	
SERVICE CREDITS	0	
PAID CREDITS	o	
GAMES STARTED	. 0	
GAMES CONTINUED	O	
TOTAL PLAYS 0		
PLAYS UNTIL HIGH SCORE	RESET	5000
MORE DETAILED RETURN TO MAIN		

Coin Bookkeeping Table

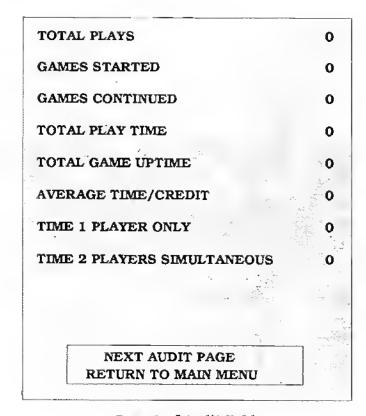
LEFT SLOT COINS	0
RIGHT SLOT COINS	o
THIRD SLOT COINS	o
FOURTH SLOT COINS	o
TOTAL COLLECTIONS	o
CLEAR COIN METER RETURN TO MAIN ME	_

Total Collection Table

GAME AUDITS

To enter Game Audits from the Main Menu, press any Start Button to select the Game Audits option; then, press either trigger to activate it. To advance to the next (or return to the previous) page of the Game Audit Table, press any Start Button to select either "Next Audit Page", or "Previous Audit Page"; then, press either trigger to change the page.

The Game Audits Table records the game play statistics. The left side of the table names the Audit item; the right side shows the amount of play.



Page 1 of Audit Table

GAME AUDITS Continued

TOTAL PLAYS	0
GAME CONTINUES OFFERED	0
GAME CONTINUES TAKEN	0
PERCENTAGE OF CONTINUES TAKEN	0
AVERAGE CREDITS/GAME	0
AVERAGE WAVE REACHED	0
GAMES PLAYED TO COMPLETION	0
MAXIMUM WAVE COMPLETED	0
1	
NEXT AUDIT PAGE	
PREVIOUS AUDIT PAGE	
RETURN TO MAIN MENU	

Page 2 of Audit Table

COIN DOOR SLAMS	0
BURN-IN LOOPS SUCCESSFULLY COMPLETED	0
WATCHDOGS TRIGGERED	0
START FAILURES	0
PREVIOUS AUDIT PAGE	
RETURN TO MAIN MENU	

Page 3 of Audit Table

To exit the Game Audit Table, press any Start Button to select RETURN TO MAIN MENU; then, press either trigger to activate your selection.

GAME ADJUSTMENTS

Press any Start Button to select the Game Adjustment option on the Main Menu; then, press either trigger to activate it.

The Game Adjustments Menu allows the owner/operator to change the Game Pricing and Game Difficulty.

The Game Adjustments Menu offers several options. Each option has its own menu. Press any Start Button to select an option; then, press either trigger to activate that option. On the next menu screen, press any Start Button to select the item you wish to modify; then, press either trigger to activate that item. The activated item provides a setting choice. Press any Start Button to change the current setting value; then, press either trigger to lock in the new setting value. Pressing the Player 1 Start Button increases the setting value. Pressing the Player 2 Start Button decreases the setting value.

To exit the Adjustments Menu, press any Start Button to select RETURN TO MAIN MENU; then, press either trigger to activate your selection.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

RETURN TO MAIN MENU

STANDARD PRICING

CUSTOM PRICING

FREE PLAY

GAME DIFFICULTY

ENERGY PER PLAY

BOMBS PER PLAY

MIN. TIME PER PLAY

ATTRACT MODE SOUND

AUTO HIGH SCORE RESET

HIGH SCORE ENTRY

ALLOW GAME CONTINUE

RETURN TO MAIN MENU

Game Adjustment Menu

GAME ADJUSTMENTS Continued

Standard Pricing

Standard Pricing allows the operator to choose any of the "Standard" selections for the Standard Pricing Table.

Note: DIP Switch settings override Standard Pricing changes made from the Game Adjustment Menu.

Custom Pricing

Custom Pricing allows the operator to install pricing other than that of the Standard Pricing Table. Custom Pricing also allows the operator to select the maximum amount of credits per game, the amount of credits required to start a game, and the amount of credits required to continue a game.

Note: DIP Switch settings override Custom Pricing changes made from the Game Adjustment Menu.

Free Play

This option allows the operator to select free play. The settings for the adjustment are:

- No (factory)
- Yes

Game Difficulty

The operator chooses the the difficulty level of the game. The settings for this adjustment are:

- 1 Easiest
- 5 Medium (factory)
- 10 Hardest

Energy Per Play

The operator chooses the amount of energy a player receives each time he/she starts or continues a game. The setting range for this adjustment is:

- 5 Lowest
- 100 Medium (factory)
- 200 Highest

Bombs Per Play

The operator chooses the amount of bombs a player receives each time he/she starts or continues a game. The setting range for this adjustment is:

- 1 Lowest
- 25 (factory)
- 99 Highest

Minimum Time Per Play*

The operator chooses the minimum time in seconds each player is guaranteed to receive for each play. The setting range for this adjustment is:

- 30 Lowest
- 45 (factory)
- 300 Highest
- * Not in effect during end-of-wave confrontations: For example, Tank Hunter Killer.

Attract Mode Sound

The operator determines whether the game will make sounds during the Attract Mode. The settings for this adjustment are:

- On (factory)
- Off

Auto High Score Reset

The All-time High Score Table is reset to factory values each time this many plays occur. The setting range for this adjustment is:

- Off
- 250 Lowest
- 5000 (factory)
- -25, 000 Highest

High Score Entry

The operator determines whether the game will allow High Score Entry and Table display. The settings for the adjustment are:

- No
- Yes (factory)

Allow to Continue

The operator determines whether the game allows a player to continue after all the players are dead. The setting for this adjustment are:

- Never
- Sometimes
- Always (factory)

Standard Pricing Table

NAME	SETTING Credit/Coin	LEFT CHUTE	CENTER	RIGHT CHUTE	FOURTH CHUTE
USA 1 USA 2 USA 3 USA 4 USA 5 USA 6 USA 7 USA 8 USA 8 USA ECA	1/25¢ 1/50¢, 3/\$1.00 1/50¢, 4/\$1.00 1/25¢, 4/\$1.00 1/50¢, 2/\$1.00	25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ \$1.00	\$1.00 \$1.00 \$1.00 \$1.00 10¢	25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢ 25¢	5¢
German 1 German 2 German 3 German 4 German ECA	1/1DM, 6/5DM 1/1DM, 7/5DM 1/1DM, 8/5DM 1/1DM, 5/5DM 1/1DM, 2/2DM, 6/5DM	1DM 1DM 1DM 1DM 1DM 5DM	1DM	5DM 5DM 5DM 5DM 2DM	
France 1 France 2 France 3 France 4 France 5 France 6 France 7 France 8 France 9 France 10 France 11 France 12 France ECA	2/5F, 5/10F 2/5F, 4/10F 1/5F, 3/10F 1/5F, 2/10F 2/5F, 5/10F, 11/2 x 10F 2/5F, 4/10F, 9/2 x 10F 1/5F, 3/10F, 7/2 x 10F 1/5F, 2/10F, 5/2 x 10F 1/3 x 1F, 2/5F 1/2 x 1F, 3/5F 1/3 x 1F, 2/5F, 5/2 x 5F 1/2 x 1F, 3/5F, 7/2 x 5F 1/3 X 1F, 2/5F, 5/2 x 5F	5F 5F 5F 5F 5F 5F 5F 1F 1F 1F	10F	10F 10F 10F 10F 10F 10F 10F 5F 5F 5F	10 P
Canada	1/2 x 25¢, 3/\$1,00	25¢		\$1.00	
Swiss 1 Swiss 2 Swiss 3	1/1F, 6/5F 1/1F, 7/5F 1/1F, 3/5F	1F 1F 1F		5F 5F 5F	
Italy	1/500 Lire	500 Lire		500 Lire	
UK 1 UK 2 UK ECA UK w/CCU	1/20P, 3/50P 2/20P, 5/50P 1/30P, 2/50P, 4/£1.00 1/30P, 2/50P, 4/£1.00	20P 20P £1.00 CCU	20P	50P 50P 50P	
Spain I Spain 2	1/25 Peseta, 5/100 Peseta 1/25 Peseta, 4/100 Peseta	25 Peseta 25 Peseta		100 Pesela 100 Peseta	
Australia 1 Australia 2	1/3 x 20¢, 2/\$1.00 1/5 x 20¢, 1/\$1.00, 3/\$2 00	20¢ 20¢		\$1.00 \$1.00	
Japan 1 Japan 2	1/100 Yen 2/100 Yen	100 Yen 100 Yen		100 Yen 100 Yen	
Austria 1 Austria 2	1/5Sch, 2/10Sch 1/2 x 5Sch, 3/2 x 10Sch	5Sch 5Sch		10Sch 10Sch	
Belgium 1 Belgium 2 Belgium 3 Belgium ECA	1/20F 3/20F 2/20F 1/25F, 4/100F	20F 20F 20F 50F	5F	20F 20F 20F 20F	_
Swedon	1/3 x 1Kr, 2/5Kr	1Kr		5 K r	
New Zealand 1 New Zealand 2	1/3 x 20¢ 1/2 x 20¢	20¢ 20¢		20¢ 20¢	
Netherlands	1/1HՈ, 3/2.5HՈ	1Hli		2.5Hfi	
Finland	1/1Mka	1Mka		1Mka	
Norway	1/2 x 1Kr, 3/5 x 1Kr	1Kr		1Kr	
Denmark	1/2 x 1Kr, 3/5Kr, 7/2 x 5Kr	1Кг		5Kr	,
Antilles	1/25¢, 4/1 Guilder	25¢		1 Guilder	

If option desired is not shown above, use custom pricing .

Custom Pricing

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

- (1) LEFT CHUTE UNITS
- (1) RIGHT CHUTE UNITS
- (1) THIRD CHUTE UNITS
- (1) FOURTH CHUTE UNITS
- (2) UNITS/CREDIT
- (3) UNITS/BONUS
- (4) MINIMUM UNITS REQUIRED
- (5) CREDITS TO START
- (6) CREDITS TO CONTINUE
- (7) COINS PER DOLLAR
- (8) MAXIMUM CREDITS

RETURN TO ADJ. MENU

- (1) Coins inserted accumulate units. This adjustment specifies the number of units given for each coin in the fourth chute (see "units/credit").
- (2) This is the number of coin units required to buy one credit.
- (3) One bonus credit is awarded after this many coin units have accumulated.
- (4) No credits will be awarded until this many coin units have accumulated.
- (5) Each player needs this many credits to begin a game.
- (6) Each player needs this many credits to continue a game.
- (7) The detailed bookkeeping screen shows total collections based on this many coins per dollar. (Set to zero to disable the display of moncy totals)
- (8) This is the limit for the credits counter. Additional coins inserted will be lost. (factory setting: 30)

UTILITIES

Press any Siart Button to select the Utilities option on the Main Menu; then, press either trigger to activate it.

The Utilities Menu allows the owner/operator to clear the game's bookkeeping memory and to install a custom message.

P1 START= UP/P2 START=DOWN ACTIVATE WITH TRIGGER

CLEAR CREDITS

CLEAR COIN COUNTERS

CLEAR GAME AUDITS

RESET HIGH SCORE

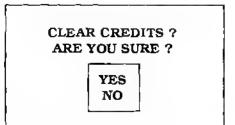
DEFAULT ADJUSTMENTS

FULL FACTORY RESTORE

RETURN TO MAIN MENU

Utilities Menu

Press any Start Button to select an item from the Utilities Menu; then, press either trigger to activate that item. After an item has been activated, you are given the option of resetting that item or not. For example,



Press any Start Button to choose YES or NO; then, press either trigger to lock in your choice and to return to the Utilities Menu.

To exit the Utilities Menu, press any Start Button to select RETURN TO MAIN MENU; then press either trigger to activate your selection.

CALIBRATE GUNS

Press any Start Button to select the Calibrate Guns option on the Main Menu; then, press either trigger to activate it.

The Calibrate Guns option allows the operator to align the guns.

Once the option is activated, the screen gives the operator three targets to aim and shoot at. First with the left gun, then with the right gun. The targets are located in the top left, center, and bottom right of the screen.

When the guns are calibrated correctly, the message **Calibration Successful**

appears on the screen and the data is stored in the CMOS RAM. The game automatically returns to the Main Menu. If gun calibration is not successful the following message appears:

CMOS RAM ERROR

Unable to write calibration values. Guns are not aligned.

Press any button to continue.

Begin again to calibrate the guns. If you make a mistake, press any Start Button to abort the procedure and start over.

To exit the Main Menu from the Calibrate Guns option, press the Player 2 Start Button to select EXIT TO GAME OVER: then, press either trigger to activate your selection. Note)

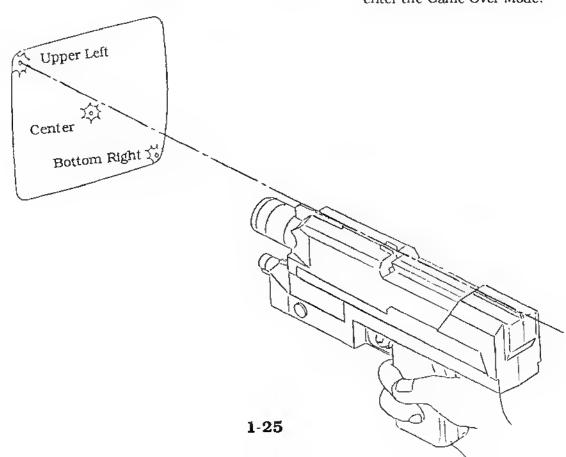
The Gun Assemblies are calibrated from the factory. However, if you change boards or replace ROMs. RAMs, or the battery, you must recalibrate the guns. Guns do not operate unless they are calibrated.

Note

Check Gun calibration when you receive your game. Guns might of been jarred during shipping and need to be recalibrated.

Note

It is necessary to turn Off the Test Switch in the coin door, and/or Switch #8 of DIP Switch Bank 2 on the CPU Board to enter the Game Over Mode.



Troubleshooting

Problem

Possible Solution

No picture, or distorted picture.

Check for faulty video board or monitor. Check for disconnected video signal cable.

Turn the game on and nothing happens.

Check line fuse. Check for +5Vdc at pins C, D, 3, and 4 of the CPU Board JAMMA Connector.

No Sound.

Check the speaker and speaker connection to pins L and 10 on the CPU Board JAMMA Connector. Check volume control setting. Check for +12V dc at pins F and 6 on the JAMMA Connector. Check interboard wiring from CPU Board to the Sound Board.

No General Illunination.

Check the 1A., S-B fuse on the floor, left of the front slide out door.

Press the trigger and nothing happens.

Check for open wires between the trigger and CPU Board JAMMA Connector. Check for proper ground. Check the trigger switch inside the gun assembly.

Press the Start Button and nothing happens.

Check for open wires between the Start Button and CPU Board JAMMA Connector. Check for proper ground. Check Start Button switch.

Press the Bomb Button and nothing happens.

Check for open wires between the Bomb Button and the CPU Board JAMMA Connector. Check for proper ground. Check the Bomb Button switch inside the gun assembly.

No credits given when coins are inscrted.

Check DIP switch coin setting. Check for contamination on coin switch contacts. Check for an open wire between Coin Switch 1 and pin 16 on the JAMMA Connector or Coin Switch 2 and pin T of the JAMMA Connector.

coins inserted.

To many credits for the amount of • Check Game Pricing setting. Check for a short between pins T & 16 on the JAMMA Connector.

The game stays in the Test Mode.

Check that the Test Switch in the coin door and Switch #8 on DIP Switch 2 are set to Off.

Guns do not operate.

Enter the Menu System and activate the Calibrate Guns option. Calibrate both Guns.

Guns do not shake during play mode.

Coil inside gun assembly could be bad. Fuse 1 (Player 1), or fuse 2 (Player 2) on the Coil Lamp Driver Board could be open.

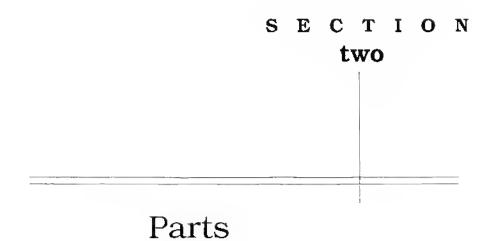
Flashlamps do not light.

Flashlamp could be bad. Fuse 4 on the Coil Lamp Driver Board could be open.

shake during play, and the LEDs on the guns do not light.

Flashlamps do not light, guns do not • Fuse 3 on the Coil Lamp Driver Board is probably open.

Terminator 2



Cabinet Hardware

Cabinet Assembly	A-14762
Caster Wheel	B-13086
Leg Leveler Plate	01-9155
Leg Adjuster, 3.0"	08-7377
Front Door Assembly	A-14763
Latch Bracket	01-6994
Wood Door	11-1022
Coin Door Assembly	A-14975
Test Switch	A-13115
Coin Door Cable	H-13842
Coin Door Cable	H-14923
Coln Door, U.S.A.	09-20000-V-1
50 K Ω Volume Control Pot.	5014-12925-00
20" Vent Hole Cover	03-7602
Marquee Retainer	03-8252-2
Lamp Lock	03-8327
Glass Edge Channel	03-8358
25" CRT Bezel	03-8497-1
Clear Glass Marquee	08-7456-12
Wood Rear Deck	11-1021
Wood Mirror Support	11-1024
Toggle Latch	20-9347
Long Arm Key T-20	20-9620
Long Arm Key T-15	20-9680
Screened Marquee	31-1632-40009
0 1 0 0 0 0 0	

Speakers

Screened CRT Glass

Screened Mirror

Speaker & Cap Assembly	A-14968
Speaker Cable	H-14922
Cap. 10mF, NP, 50V	5045-12914-00
4Ω , Tweeter Speaker	5555-12924-00
6", 4Ω , Round Speaker	5555-12929-00
Speaker Grille	01-10283
Steel Speaker Screen	4506-01103-24B

31-1643

31-1633-40009

Manuals

Monitor Manual	16-3000-103
Instruction Manual	16-40009-101

Monitor

Monitor Support Bracket	A-14769
Monitor Support Bracket	A-14770
25" Monitor	5675-12787-00

PC Boards

Chassis Panel Assembly A-14794-1
Wood Chassis Panel 11-990
Power Supply Assembly A-14205

Sound Board Assembly A-14732-40009 Y-Unit CPU Assembly A-14818-40009

Coil Lamp Driver Board A-14915
Dual Flashlamp Board A-15021
Twist Lamp Socket 24-8767
#906 Bulb 24-8802

Transformer Assembly

Power Pack Assembly A-15123
Line Cord Assembly A-13340
Power Pack Chassis Assy A-15124
Power Pack Jumper Cable H-13265
Line Filter Jumper Cable H-13344
Transformer Jumper Cable H-13378

 Varistor, 130V, 10J
 5017-09044-00

 Line Filter, 5 Amp
 5102-08895-00

 Power Transformer
 5610-12945-00

 Fuse, SB, 5A, 250V
 5731-09651-00

 Fuse Holder, Panel
 5733-10358-00

Fluorescent Lamp Assembly

Fluorescent Housing & Bracket C-12679
Housing Mounting Brkt 01-9146
Light Fixture 20-9590
18" Fluorescent Bulb, 15 W 24-8809

Control Panel

Control Panel Assembly A-14764 Gun Assembly A-14415 Control Panel Cable H-14920 Earth Ground Cable H-14950 Latch Bracket 01-6994 Wood Control Panel 11-1023 Toggle Latch 20-9347 Red Pushbutton 20-9687-1 Blue Pushbutton 20-9687-3

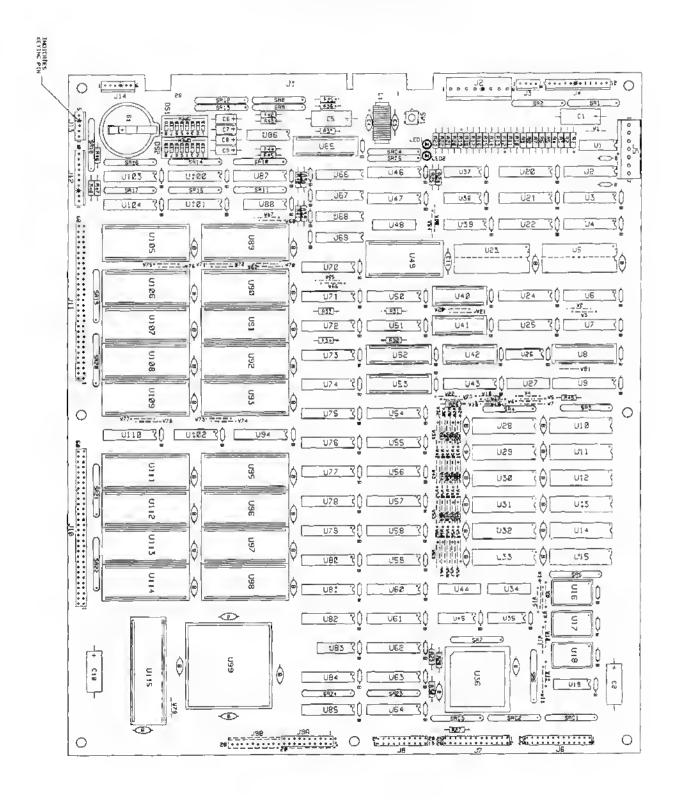
Cables

Line Voltage Cable Assembly	A-14969
Video Sw/Power Cable	H-10217-4
Power Pack Jumper Cable	H-13265
Line Filter Jumper Cable	H-13344
Transformer Jumper Cable	H-13378
Coin Door Cable	H-13842
Ground Jumper Cable	H-13953
Machine Gun Cable	H-14904
Main Harness Cable	H-14905
Video Signal Cable	H-14949
Secondary Jumper Cable	H-14906
Lamp/Speaker Cable	H-14907
Control Panel Cable	H-14920
Piezo Speaker Cable	H-14922
Coin Door Cable	H-14923
Video Extension Cable	H-14924
Sound Power Speaker Cable	H-14925
G.I. Cable	H-14926
Gun Ground Cable	H-14927
Control Panel Earth Ground	H-14950

A-14205 Power Supply Switcher Assembly

Part Number Description Video Sw/Power Cable H-10217-4 Ground Jumper Cable H-13953 01-9254 Shield 01-9938 Mounting Bracket 0 0 100 0 0 00 GRAY/GREEN VIOLET. VIOLET GRAY/YELLOW GREEN GRAY BLACK BLACK GROUND JUMPÉR CAUTION HIGH VOLTAGE PRESENT WHEN GAME IS PLUGGED IN

A-14818-40009 CPU Board Assembly

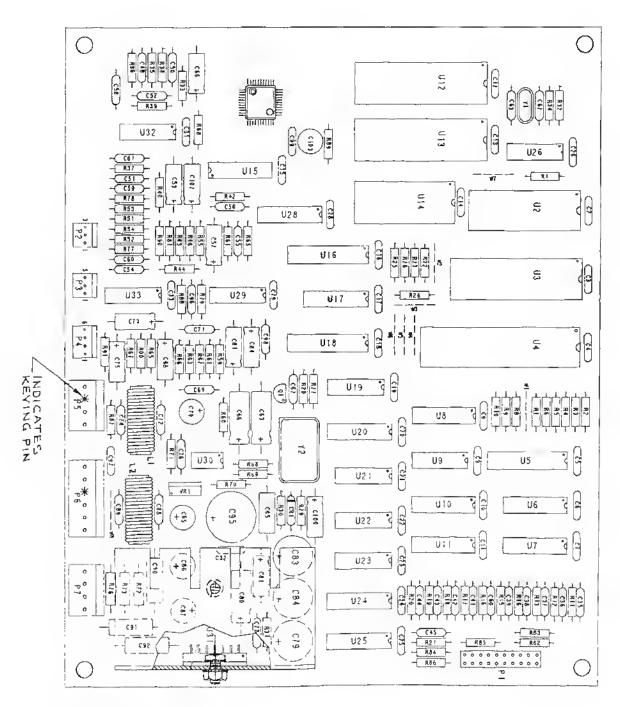


A-14818-40009 **CPU Board Parts**

Part No.	Ckt.Designator	Description	Part No.	Ckt.Designator	Description
		Bare PC Brd.	5043-08980-00	В	Cap01 µfd 10V
5281-09737-00	Ul	IC, 74LS86 XOR	5040-08986-00	C1, C2, C5, C10	Cap, 100µfd 10V
5317-12211-00	U2, U20, U24, U43	IC, 74ALS541	5043-09845-00	C3, C4	Cap, .001µld 10V
F015 10010 00	U61, U62, U70		5041-09243-00	C6-C9	Cap. 10µfd 10V
5317-12212-00	U3, U6, U7, U21, U25	74ALS574	5043-8996-00	Cll	Cap lµfd
	U50, U58, U63, U64 U71, U72, U74, U79,		5019-12611-00	SR1, SR2, SR8 SR9, SR12, SR13	SIP, 470Ω, 5 Res.
	U84, U85			SR18	
5317-12208-00	U4, U22, U54-U57	74ALS245	5019-09362-00	SR3, SR4, SR6	SIP, 4.7KΩ, 9 Res.
	U59, U60, U75-U78			SR7, SR11, SR15	
	U80, U81, U94, U110			SR17, SR19-SR24	
5340-12840-00	U5, U23	IC, 8K x 8 S RAM	T001 10110 00	SRC1-SRC3	CID 4800 05
5700-12047-00 5340-12213-00	U8, U52, U53, U65	24-pin Socket	5091-10143-00	SR5	SIP, 470Ω, 9 Res.
5521-12934-00	U10, U11, U28-U33 U16	1C, 4461 VRAM 50 MHZ XIAI	5060-10396-00	SRC4, SRC5 SRC10, SRC14	SIP. 4.7KΩ 470pf
5521-10318-00	U17	24 MHZ XIal		SRC16	
5283-10468-00	U19, U45	IC, 741/74	5671-09019-00	LED1, LED 2	LED, Red
5019-10849-00	U27, U34, U44, U48	100Ω DIP Res.	5551-09822-00	L1	Inductor, 4.7UH
5317-12305-00 5700-12253-00	U35 U36	1C, 74A1,500	5645-09025-00	DS1, DS2	DIP, Sw. 16 pin
5280-09309-00	U37	68-pin Socket IC, 7407	5641-12551-00 5881-12315-00	SW1 D1	Pushbutton Sw. Battery Holder
5281-09487-00	U38	IC, 74LS74	5791-10862-08	J2	8-pin Header
5434-12255-00	U39	IC. MAX691	5791-12461-12	J4	12-pin Header
5700-09915-00	U40-U42	20-pin Socket	5791-10850-00	J 6, J7	26-pin Ribbon Conn.
5311-12287-00	U47, U46, U87, U100	IC, 7413C541	5791-12461-04	J3	4-pin Header
5700-10176-00	U101, U103, U104 U49	28-pin Socket	5791-12461-20 5791-09437-00	J9A, J9B J8	20-pin Header 20-pin Ribbon Conn,
5311-12285-00	U51, U73, U82	IC, 74HC573	5791-12461-10	312	10-pin Header
5340-12014-00	U66-U69	IC, 4464 DRAM	5700-12252-00	U12-U15	24-ptn Sockel
5283-10552-00	U83	1C, 74F04	5791-12461-05	J13	5-pin Header
5370-12602-00 531 7 -12023-00	U86 U88	IC, ULN2064B IC, 74ALS[38	A-14819 A-5346-40009-1	U8	CPU Sub-assembly IC, PLD Color RAM Ctrl
5700-12088-00	U89-U93, U95-U98	32-pin Socket	5400 - 12220 - 00	U36	IC, TM34010-50, GSP
	U105-U109,	•	A-5346-40009-2	U40	IC, PLD Address Decode.
5700 10054 00	U111-U114	144 . 0	A-5346-40009-3	U41	IC, Video RAM Control
5700-12254-00 5317-12024-00	U99 U102	144-pin Socket IC. 74ALS139	A-5346-40009-10 5340-12558-00	U42 U49	IC, PLD Local Control IC, Stat[c RAM, 150ns
5700-08985-00	U115	40-pin Sockei	A-5346-40009-11	U52	IC, PLD Video RAM Seq.
5010-08991-00	R1,R24, R27	Res. 4.7KΩ 5% 1/4W		U53	IC, PLD Image ROM Ctrl
5010-10204-00	R2, R7, R12	Res. 1KΩ 2% 1/4W	Λ-5346-40009-7	U65	IC. PLD Misc. Control
5010-10205-00 5010-10000-00	R3, R8, R13 R4, R9, R14	Res. 2KΩ 2% 1/4W Res. 3.9KΩ 5% 1/4W	A-5343-40009-1 A-5343-40009-2	U89 U90	IC, Game EPROM IC, Game EPROM
5010-09219-00	R5, R10, R15	Res-8-2KΩ 5% 1/4W	A-5343-40009-3	U91	IC, Game EPROM
5010-08772-00	R6, R11, R16	Res. 15KQ 5%1/4W	A-5343-40009-4	U92	IC, Game EPROM
5010-09001-00	R23, R25	Res_330Ω 5% 1/4W	Λ-5343-40009-5	U93	IC, Game EPROM
5010-09036-00	R26, R29-R34, R50, R51	Res. 100Ω 5% 1/4W	Λ-5341-12952-02 Λ-5343-40009- 7	1)95 U96	IC, Image ROM, 2M-01 IC, Game EPROM
5010-09416-00	R35-R37, R46-R48	Res. 470Ω 5% 1/4W	A-5343-40009-8	U97	IC, Game EPROM
5010-08997-00	R38-R45	Res. 2.7KΩ 5% 1/4W		U98	IC, Game EPROM
5010-09534-00	W2, W8, W11, W12,	Res, 0Ω	5410-12239-00	U99	IC, Custom ASIC
	W14, W21, W22, W24,		A-5343-40009-10	U105	IC, Game EPROM
	W27, W29, W30, W32, W34, W36, W39, W41,		Λ-5341-12952-03 Λ-5343-40009-12	U106 U107	IC, Image ROM, 2M-02 IC, Game EPROM
	W42, W45, W47, W48,		Λ-5343-40009-13	U108	IC, Game EPROM
	W50, W52, W55, W57,		Λ-5343-40009-14	U109	JC, Game EPROM
	W58, W60, W62, W65,		A-5341-12952-01	U111	IC, Image ROM, 2M-00
	W68, W69, W71, W73, W75, W77, W80, W83		A-5343-40009-16 A-5343-40009-17	U112 U113	IC, Game EPROM IC, Game EPROM
	****** **** WOO! WOS		Λ-5343-40009-17	U114	IC, Game EPROM
			A-5346-40009-8	Ŭ115	IC, PLD Autocrase Ctrl
			5880-11056-00	B1	Battery, Lithium, 3V
			03-8338-1		1/4* Spacer

Notes: 1-See Section 3 for schematic 2. *⇒ Not available for individual sale.

A-14732-40009 Sound Board Assembly



NOTE: UIS IS ROTATED (180°) WITH RESPECT TO OTHER LC'S.

A-14732-40009 Sound Board Parts

		Sound Bo			
Part No.	Ckt. Designator	Description	Part No.	Ckt Designator	Description
5340-12958-00	U7, U11, U24	IC, 26LS31	5040-09332-00	C63, C66, C80	47mF Cap., 25V
5340-12959-00	U6, U10, U25	IC, 26LS32	5040-09421-00	C70, C85-C87, C103	100mF Cap., 25V
5281-09850-00	U19	IC, 74LS11	5040-09506-00	C79, C83, C84	220ml Cap., 16V
5281-09215-00	U26	IC, 741,S04	5040-12670-00	C95	2200mF Cap., 16V
5281-09851-00	U21	IC, 74LS14	5070-08919-00	CR1	1N4148 Diode
5281-09487-00	U9, U22, U23	IC, 74LS74	5160-12891-00	Q1	MPS3646 Trans.
5281-09745-00	U8	IC, 74LS138	5551-09822-00	LI, L2	4.7µH Inductor, 3A
5281-09246-00	U20	IC, 74LS139	5700-09006-00	U28	16-pin Socket
5281-09733-00	U17	IC, 74LS174	5700-09915-00	U18	20-pin Soeket
5281-09486-00	U5, U16	IC, 74LS374	5700-09004-00	U14	24-pin Socket
5340-12278-00	U2	IC, Static RAM	5700-08985-00	U4	40-pin Socket
5370·12260-00 5460-12743·00	U30 VR1	IC, 3340 Allenuator	5700-12088-00	U3, U12, U13	32-pin Socket
5370-12960-00	U29	IC, 7809 Regulator IC, LM324 OP Amp	5791 · 10862 · 04 5791 · 10862 - 06	P5, P7 P6	4-pin Header 6-pin Socket
5370-12730-00	U32, U33	IC, TLOS4 OF Amp	5791-09437-00	Pl	20-pin Header
5371-12727-00	U15	AD7524 DAC	01-10516	1 1	Heal Sink
5370-12963-00	U31	HA13I 16 Pwr. Amp.	4406-01128-00		6-32 Hex Nut
5521-10931-00	Y2	8Mhz Oscillator	4006-01003-06		6-32 x 3/8 P-PH-S
5520-09020-00	Y1	3.58Mhz Crysfal	20-9690-18		Spacer, 1-1/8
5010-09534-00	W2, W3, W5, W7, W8	OΩ Resistor	•		Barc PCB
5010-12961-00	R72-R74	3.3Ω Rcs., 5%, 1/2W	5433-12962-00	Ul	IC, OK16295
5010-09039-00	R89	10Ω Rcs., 5%, 1/4W	5400-10320-00	U4	IC, 68B09E MPU
5010-10170-00	R11-R21	47Ω Res., 5%, 1/4W	5371-11087-00	U28	JC, YM3012 DAC
5010-09036-00 5010-09187-00	R4, R30, R90	100Ω Rcs., 5%, 1/4W	5370-11086	U14	IC, YM2151 Sd Gen
5010-09160-00	1827 1883	150Ω Res., 5%, 1/4W 220Ω Res., 5%, 1/4W	A-5346-40009-9	ก3 กาช	IC, PLD Sound
5010-09416-00	R32, R43, R41, R82	470Ω Rcs., 5%, 1/4W	A-5343-40009-19 A-5343-40009-20	U12	IC, EPROM Assy IC, EPROM Assy
5010-09358-00	R43, R68	IKΩ Res., 5%, 1/4W	A· 5343-40009-21	U13	IC, EPROM Assy
5010-08998-00	R22-R24, R26, R59,	2.2KΩ Res., 5%, 1/4W	*	010	Label
	R61		03-8358-1		PCB Mtg. Spacer
5010-08983-00	1228	3.3KΩ Res., 5%, 1/4W	A-14733		Sub-assembly
5010-10000-00	R87	3.9KΩ Res., 5%, 1/4W			
5010-08991-00	R1-R3, R5-R10,	4.7KΩ Res., 5%, 1/4W			
E010 00010 00	R25, R84-R86, R91	O OVO Des FOR LAND			
5010-09219-00 5010-09034-00	R69	8.2KΩ Res., 5%, 1/4W			
3010.03034-00	R62, R63, R67, R70, R80	10KΩ Res., 5%, 1/4W			
5010-09269-00	R64	12KΩ Res., 5%, 1/4W			
5010-09324-00	R58	27KΩ Res., 5%, 1/4W			
5010-09325-00	R36	39KΩ Res., 5%, 1/4W			
5010-09035-00	R29, R53, R81	47KΩ Res., 5%, 1/4W			
5010-10987-00	R77, R78	56KΩ Res., 5%, 1/4W			
5010-10650-00	R38, R45, R51	62KΩ Res., 5%, 1/4W			
5010-08776-00	R31, R71	68KΩ Res., 5%, 1/4W			
5010-10257-00 5010-12927-00	R35	75KΩ Rcs., 5%, 1/4W			
5010-09162-00	R79 R33, R48, R54, R55,	82KΩ Res., 5%, 1/4W 100KΩ Res., 5%1/4W			
5010-05102-00	R60, R65	10012211CS., 590174W			
5010-12965-00	R39	130KΩ Res., 5%, 1/4W			
5010-09134-00	R40, R44, R46, R52	150KΩ Rcs., 5%, 1/4W			
5010-12964-00	R37, R42	820KΩ Res., 5%, 1/4W			
5048-11027-00	C59, C60	33pF Cap., 10%			
5043-10264-00	C50, C62	68pl Cap., 10%			
5043-09492-00	C35-C45, C47, C49	100pF Cap., 10%			
CO40 10040	C98	000 000			
5048-12748-00	C54, C61, C96	220pF Cap., 10%			
5048-11030-00	C71	470pF Cap., 10%			
5048-12506-00	C78	820pF Cap., 10%			
5048-11031-00 5048-11065-00	C48, C55, C76 C69	1000pF Cap., 10%			
5048-12967-00	C58	2200pF Cap., 10% 2700pF Cap., 10%			
5048-11072-00	C51, C56	3300pF Cap., 10%			
5048-12966-00	C52	3900PFCap., 10%			
5043-08980-00	C2-C26, C28, C29,	.01ml Cap.			
	C31-C33, C97, C99	•			

5045-12926-00 5043-08996-00

5048-12036-00

5040-09365-00 5040-09343-00 C32-C26, C28, C29, C31-C33, C97, C99 C90-C92

C72, C74, C88, C89 C65

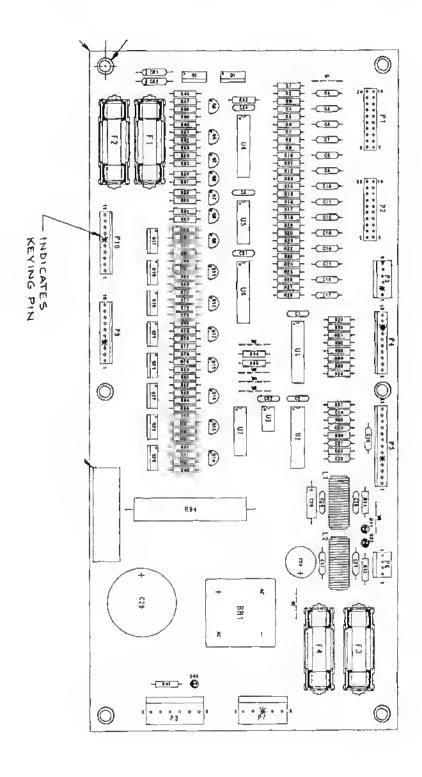
C46, C53, C57, C64 C67, C73, C75, C81 C100, C102

C68

.1mF Cap., 10% .1mF Cap., 20% .22mF Cap., 10%

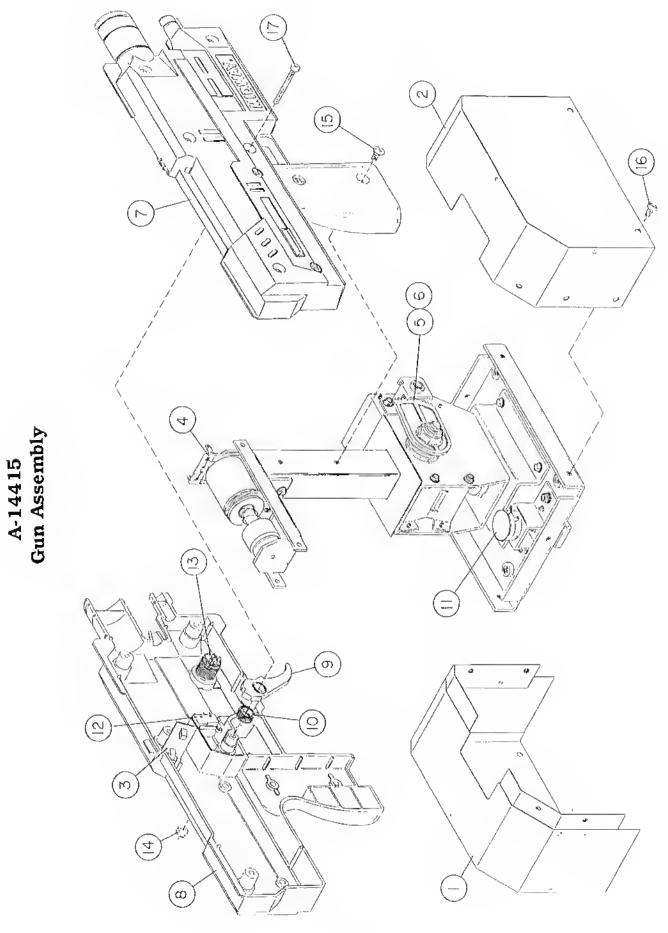
1mF, Cap., 10mF Cap., 16V, 20%

A-14915 Coil Lamp Driver Board Assembly



A-14915 Coil Lamp Driver Board Parts

Part Number	Ckt. Designator	Description
5315-12031-00	Ul	IC. 74HCT244
5372-12901-00	U2	IC, ADC0844
5311-12668-00	U4, U6	IC, 74HCT273
531 1-12 669-00	U5	IC, 74HCT14
5434-12910-00	U3	IC, MAX699
5162-12635-00	Q1, Q2, Q17-Q24	Trans., TIP102
5160-10269-00	93, 94, 99-916	Trans., 2N3904
5010-09034-00	R1, R3, R5, R7, R9,	Res., 10KΩ, 1/4W, 5%
	R11, R13, R15, R17,	
	R19, R21, R23, R25,	
	R27, R37, R38, R39,	
	R40, R44, R45	
5010-09162-00		Dec 1009/0 1/459 504
5010-09162-00	R2, R4, R6, R8, R10,	Res., 100KΩ, 1/4W, 5%
	R12, R14, R16, R18,	
	R20, R22, R24, R26	
	R28	
5010-09416-00	R29-R36, R49, R53,	Res., 470Ω, 1/4W, 5%
	R65, R69, R73, R77,	
	R81, R85, R89, R93	
5010-09224-00	R41, R42	Res., 270Ω, 1/4W, 5%
5010-08991-00	R43, R48, R52, R64,	Res., 4.7KΩ, 1/4W, 5%
	R68, R72, R76, R80,	100-7, 1011-1, 17, 111, 011
	R84, R88, R92	
5010-08997-00	R46, R50, R62, R66,	Res., 2.7KΩ, 1/4W, 5%
0010-00557-00	R70, R74, R78, R82,	10.5., 2.7102, 1747, 570
	R86, R91	
5010-12480-00	R47, R51, R63, R67,	Dec 690 1/410 504
3010-12480-00		Res., 68Ω, 1/4W, 5%
	R71, R75, R79, R83,	
=010 0010=00	R87, R90	D 1500 1/441 50/
5010-09187-00	R54, R56, R58, R60	Res., 150Ω, 1/4W, 5%
5010-10983-00	R55, R57, R59, R61	Res., 1.8KΩ, 1/4W, 5%
5012-12632-00	R94	Res., .12Ω, 10W, 10%
5010-09085-00	R95	Res., 1,5KΩ, 1/4W, 5%
5010-09534-00	W1, W6, W7	Jumper Wire
5070-09054-00	CR1, CR2	Diode, 1N4004, 1A
5043-08980-00	C1-C3, C23, C24,	Cap., .01mF, 50V
	C30-C32	•
5043-09492-00	C4-C7, C9-C22	Cap., 100pF, 50V
5040-12751-00	C25	Cap., 4.7mF, 10V
5048-11031-00	C26, C27	Cap., .001mF, 50V
5040-10974-00	C28	Cap., 100mF, 35V
5551-09822-00	L1, L2	Ind., 4.7μH, 3A
5100-09418-00	BR1	Bridge Rec., 100V, 35A
5730-06311-00	F1, F2	Fuse, 3A, FB, 250V
5730-12985-00	F3	Fuse, 1A, FB, 250V
5731-09432-00	F4	Fuse, 7A, SB, 125V
5733-12060-01		Fuse Holder
5671-09019-00	DS1, DS2, DS3	LED Red
5791-09437-00	P1, P2	20-pin Header
5791-12461-06	Р3	6-pin Header . 100
5791-12461-10	P4, P9, P10	10-pin Header .100
5791-12461-13	P5	13-pin Header .100
5791-12461-04	P6	4-pin Header .100
5791-10862-05	P7	5-pin Header .156
5791-10862-06	P8	6-pin Header , 156
5190-09016-00	Q5-Q8	Trans., 2N4403
03-8338-1		Spacer, PCB Mtg., 1/4"



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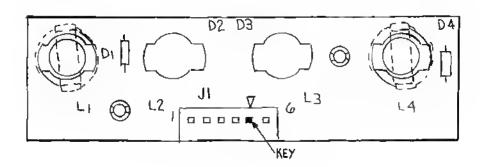
A-14415 Gun Parts

Item	Part Number	Description
1	A-14444	Housing Assembly, Left
2	A-14590	Housing Assembly, Right
3	A-14914	Gun LED Assembly
4	A-14455	Coil & Bracket Assembly
5	03-8528	Gear Drive
6	03-8529	Gear Pinion
7	03-8537	Molded Housing, Right
8	03-8538	Molded Housing, Left
9	03-8539	Molded Trigger
10	10-429	Trigger Return Spring
11	5014-12909-00	Potentiometer, 5KΩ, Long Life
12	5647-12863-00	Switch, Snap Action Trigger
13	5641-12864-00	Switch, Pushbutton, Rocket
Hardw	vare:	
14	4408-01119-00B	Nut, #8-32 ESNA, Black Oxide
15	4010-01148-06B	MS, #10-43, FH Torx TP, Black Oxide
16	4008-01090-06B	MS, #8-32 x 3/8 PH Torx TP, T23
17	4008-01093-22B	MS, #8-32 x 1-3/8, TPR
	4422-01119-00	Nut, 3/8-16 ESNA/NTU
	4410-01153-20	Nut, #10-24 x 1-1/4, HWHD, Sems
	4108-01150-06	SMS, #8-32, PL HWHD, Sems, T23
	4700-00034-00	FW, .265 x .875 x .067 ga.
	4700-00012-00	FW, .172 x .375 x .032 ga.
	4420-01119-00	Nut, 1/4-20 ESN/NTU
	4320-01124-20	Bolt, 1/4-20 x 1/4 H, HD

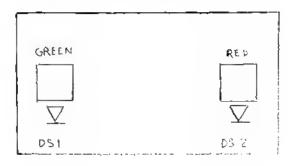
A-15021 Dual Flashlamp Board Assembly

Part No. Description

24-8802 Bulb, #906, 12V, 2.5A



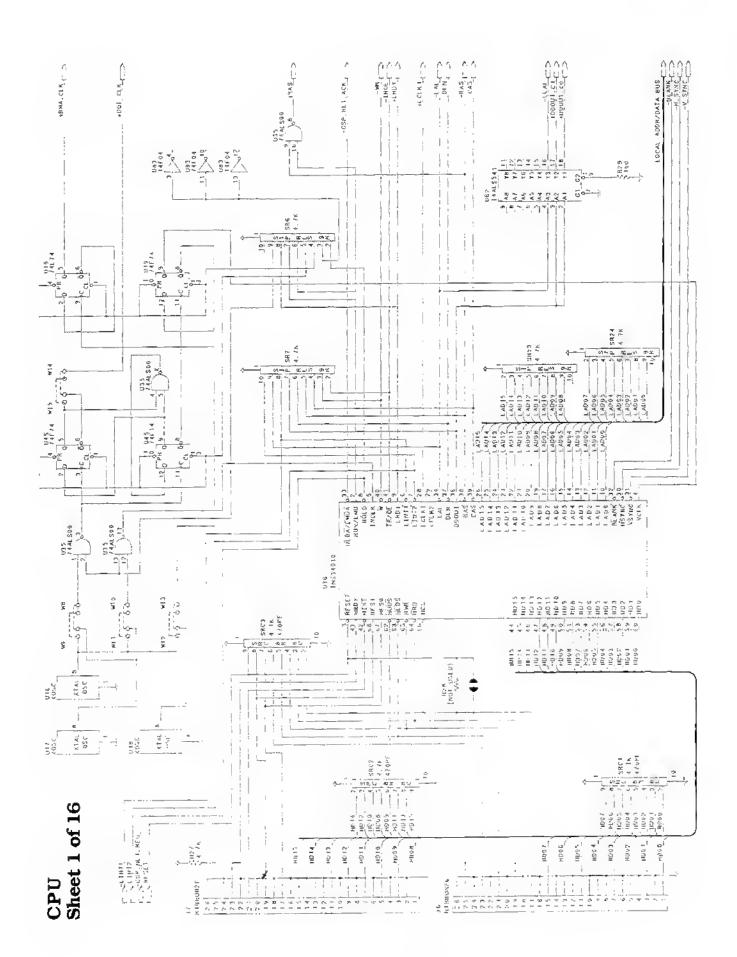
A-14914 Gun LED Board Assembly

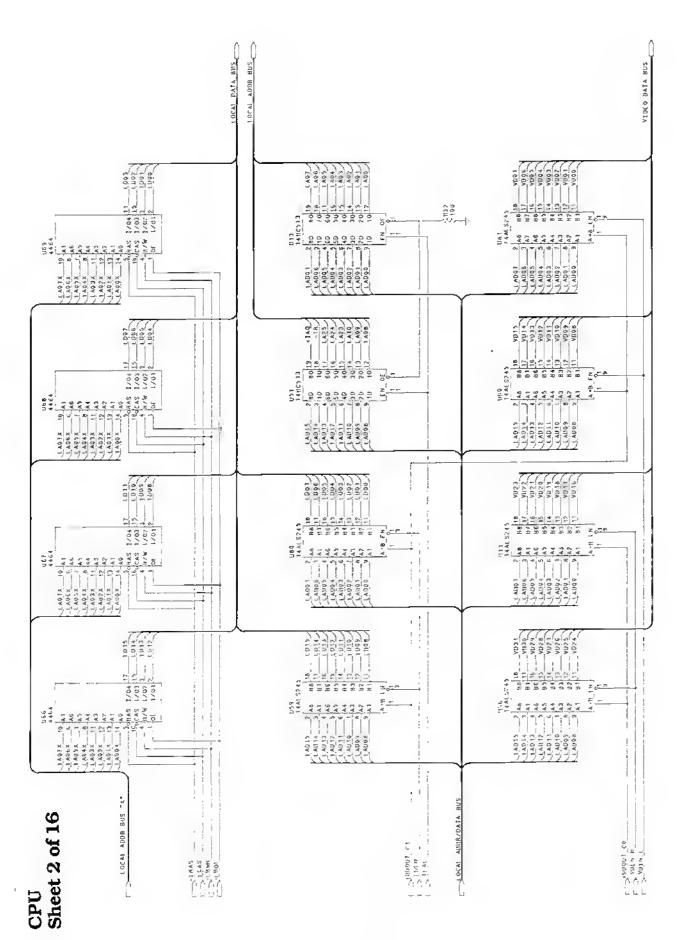


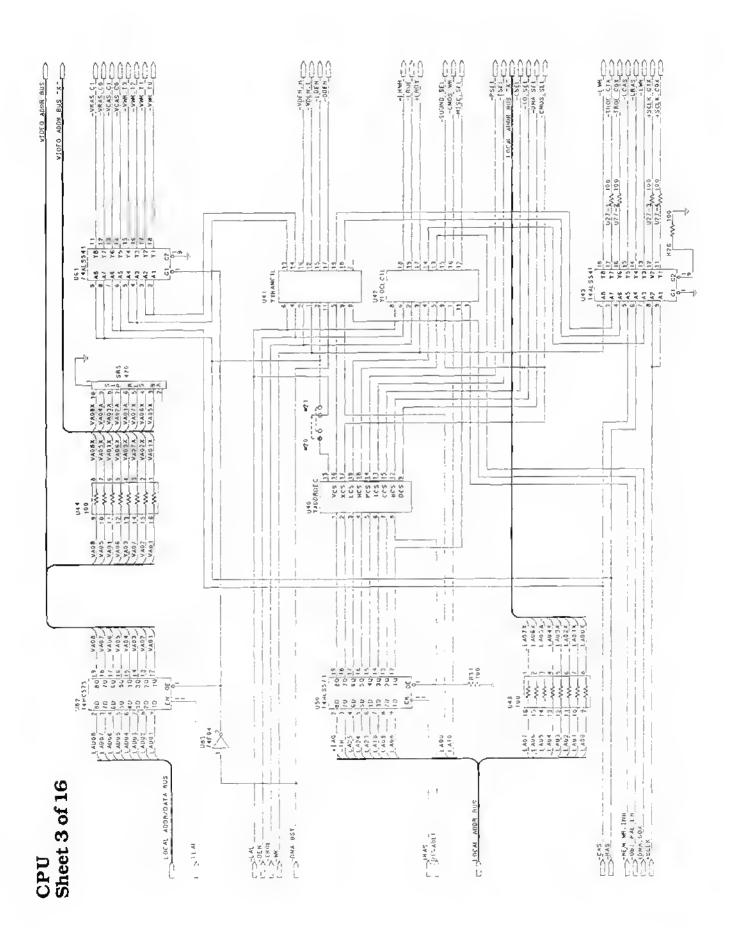
Terminator 2

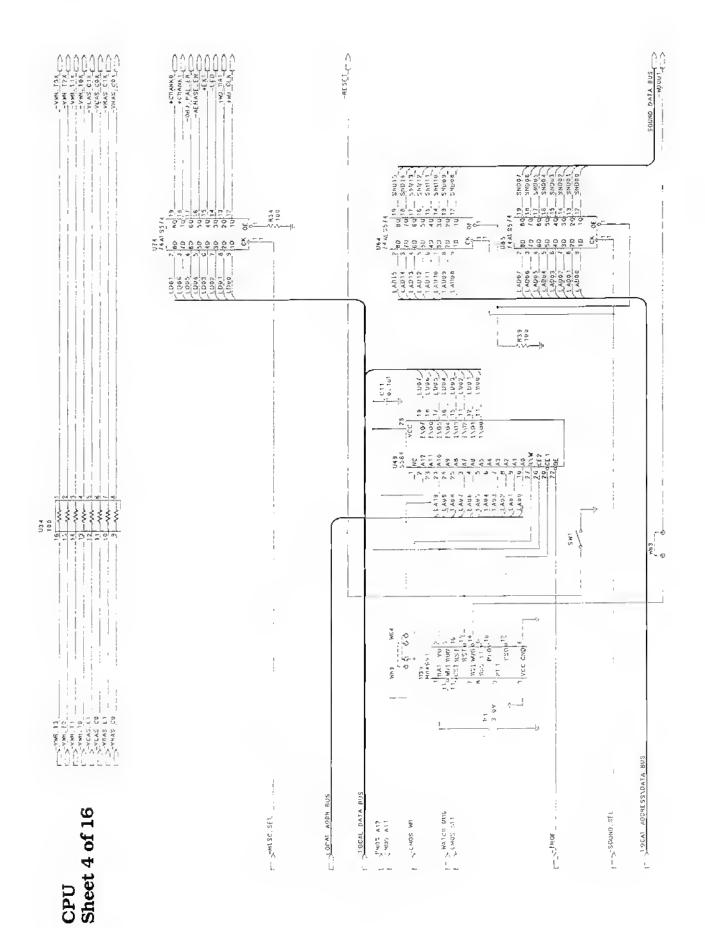
SECTION three

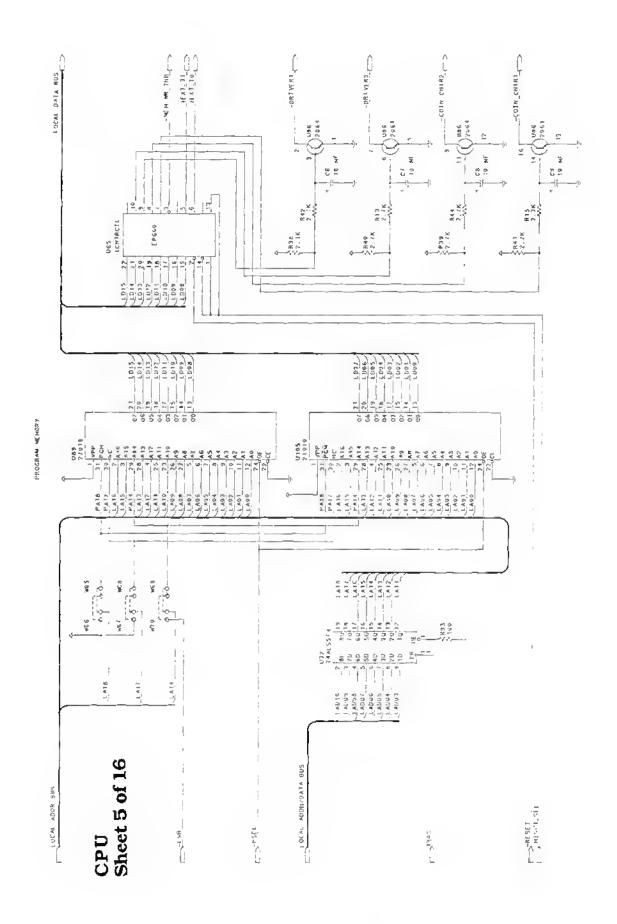
Schematics & Wiring

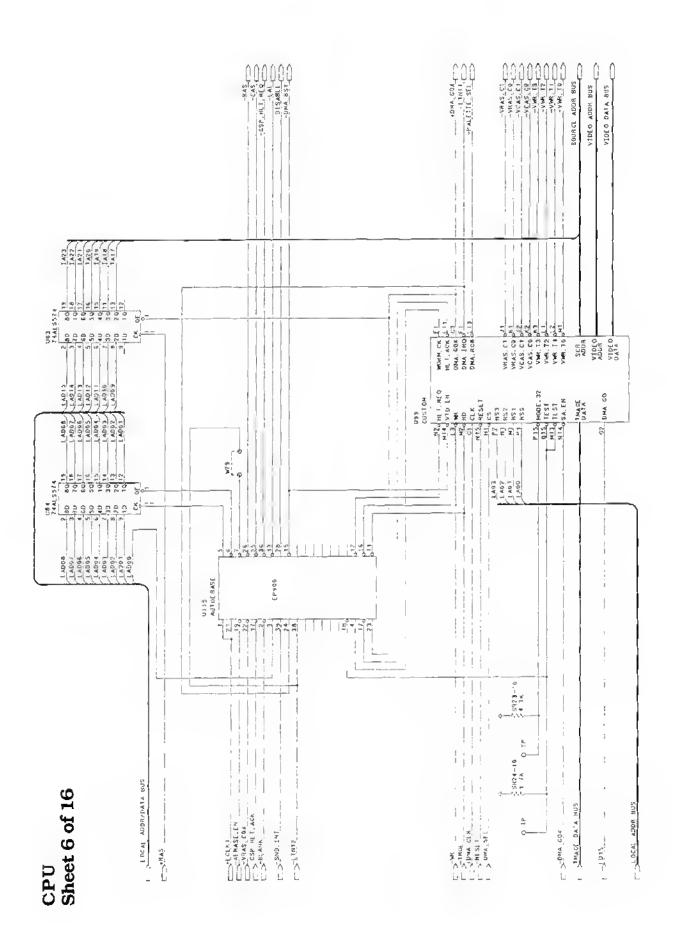


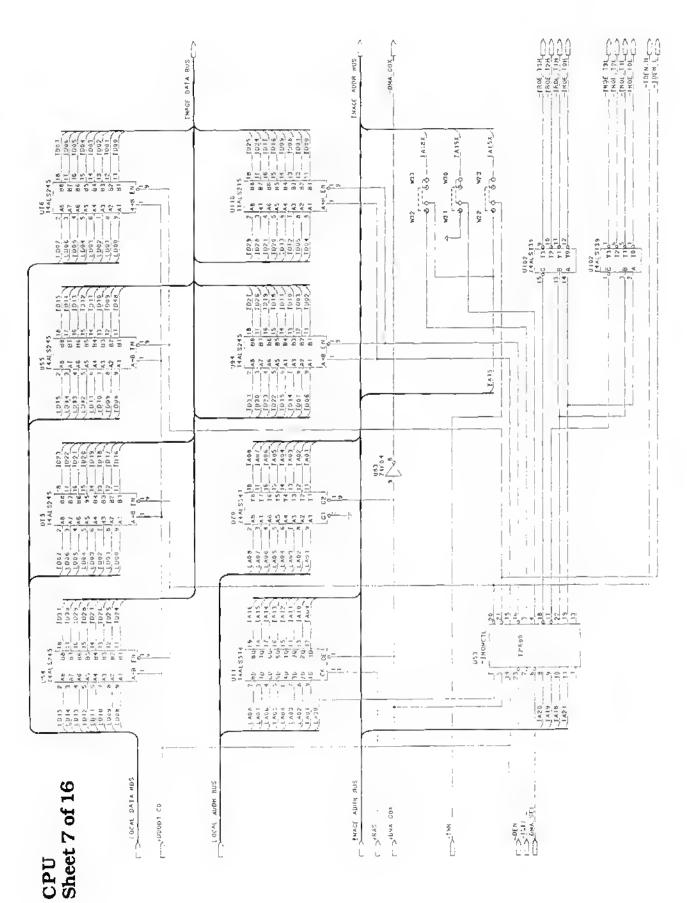


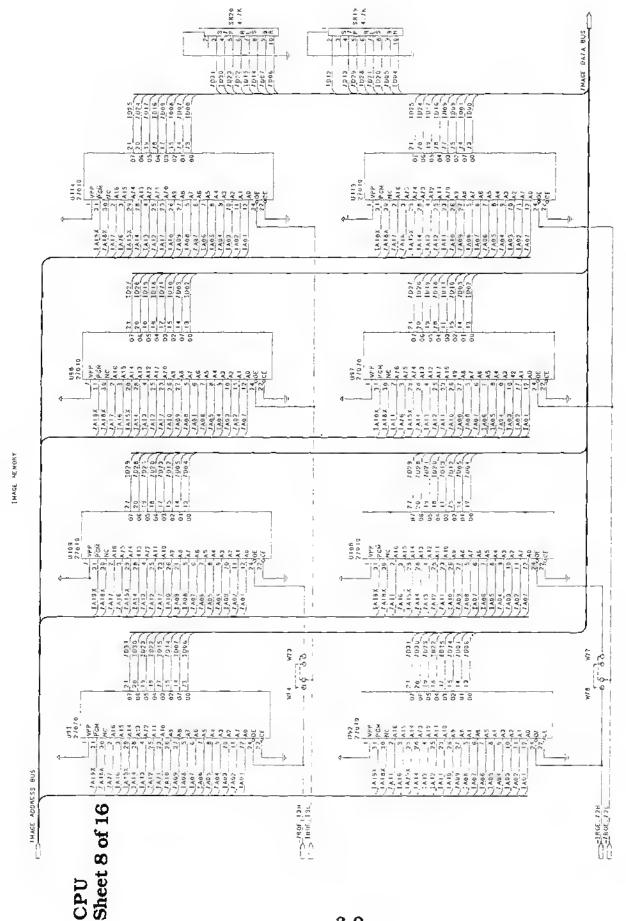






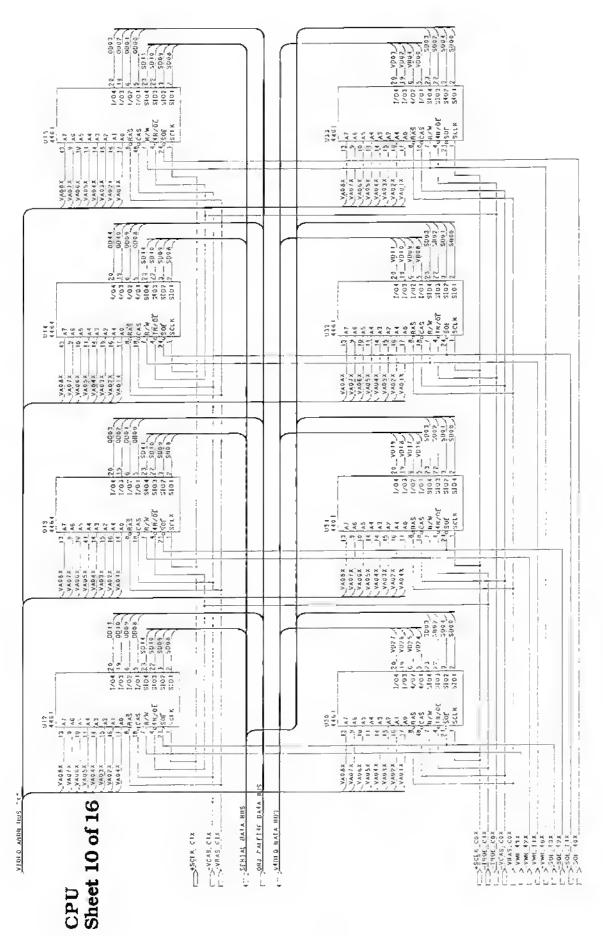


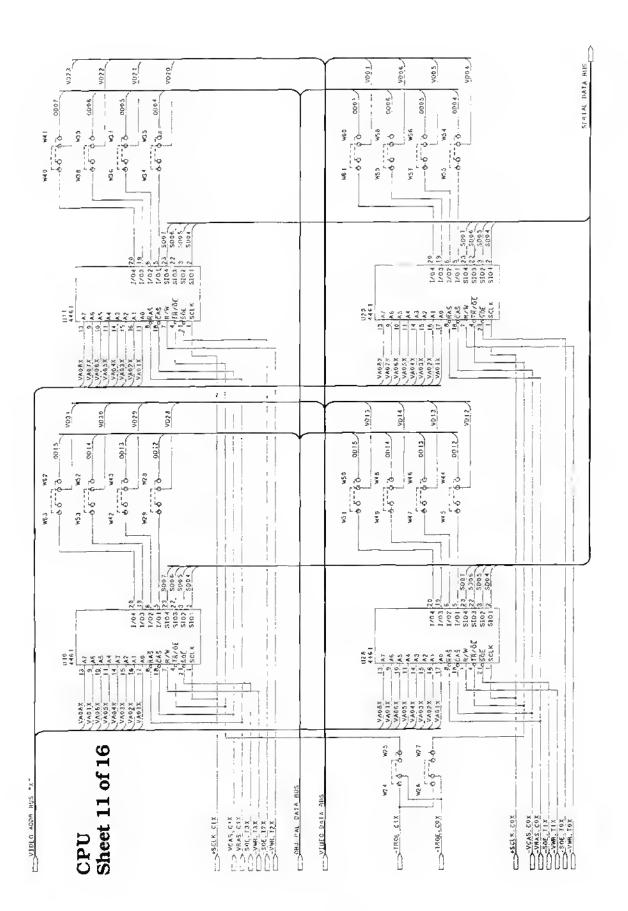


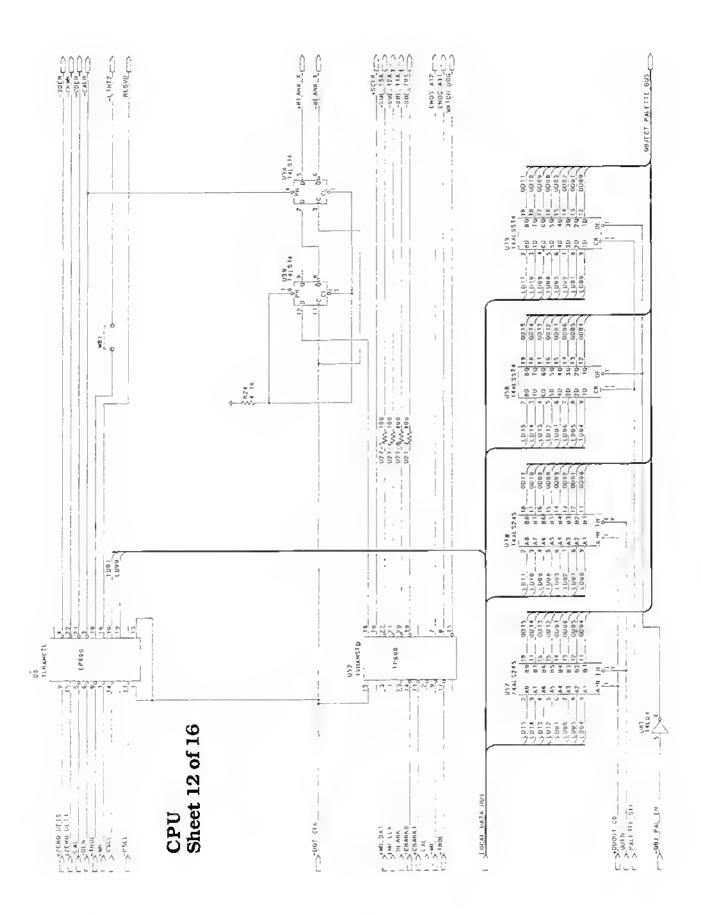


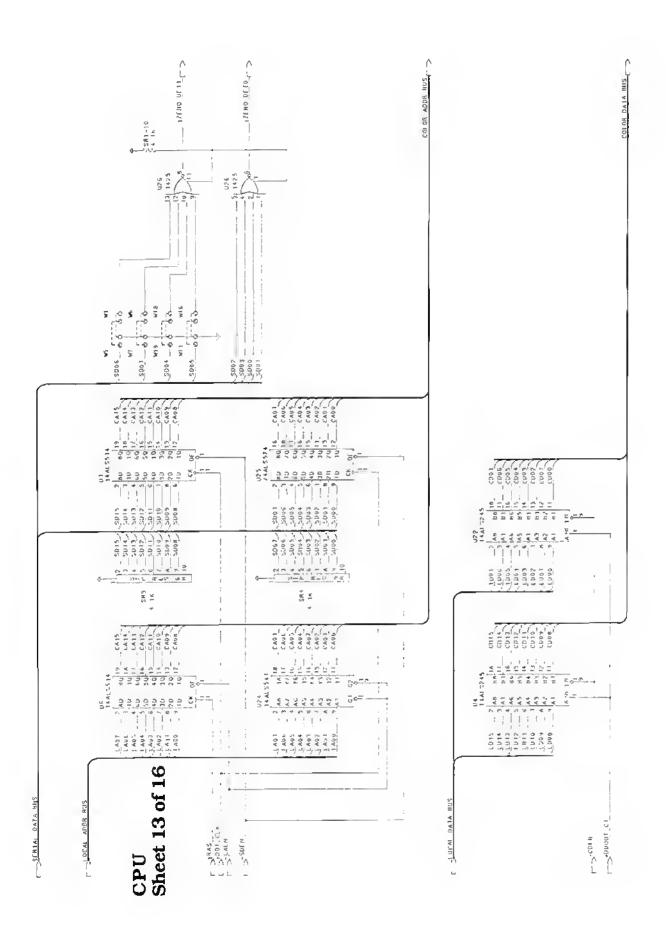
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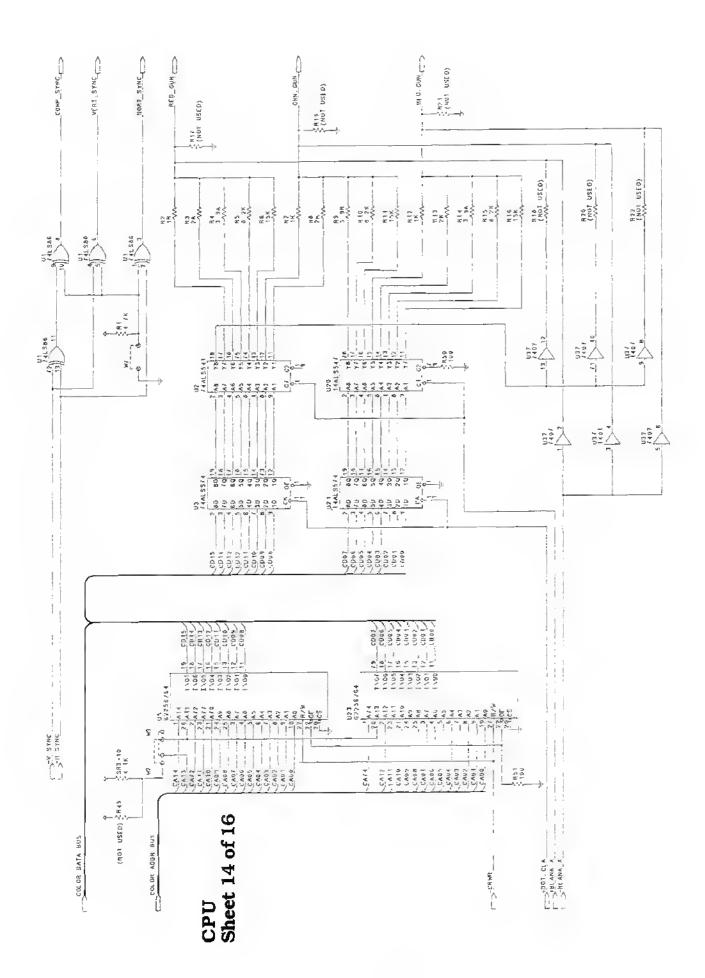
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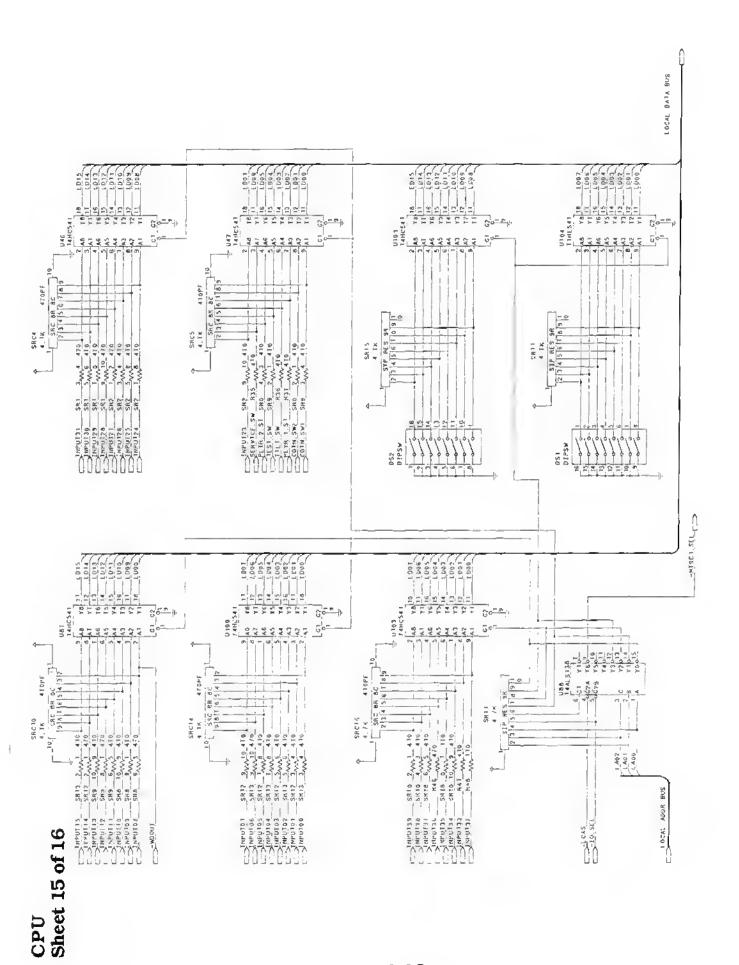


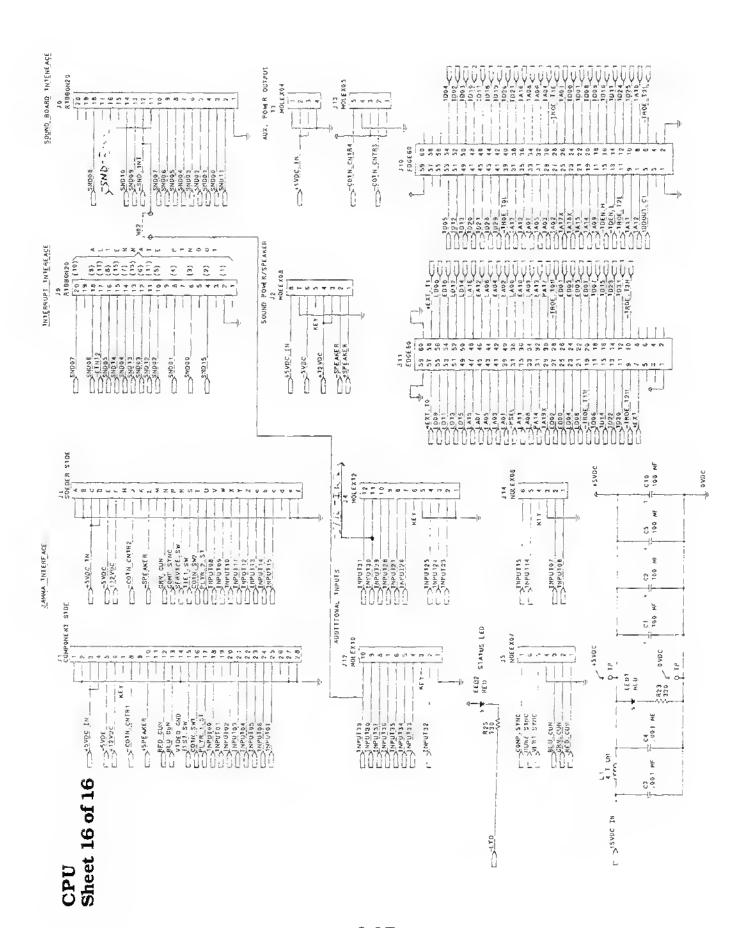




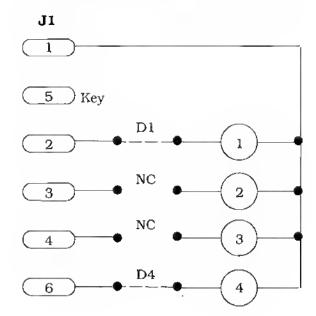




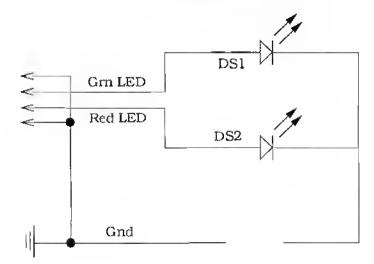


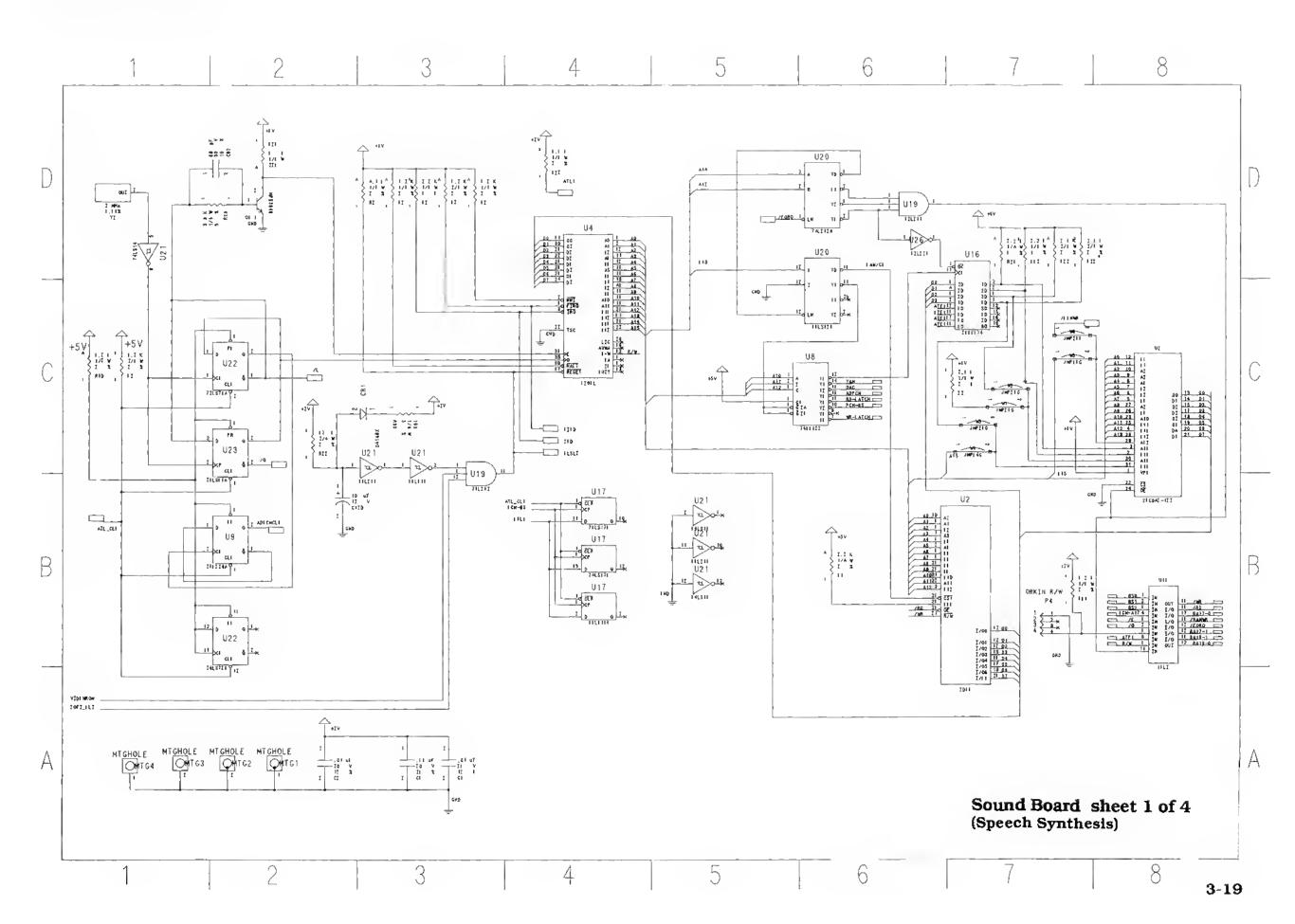


Dual Flashlamp Board Schematic

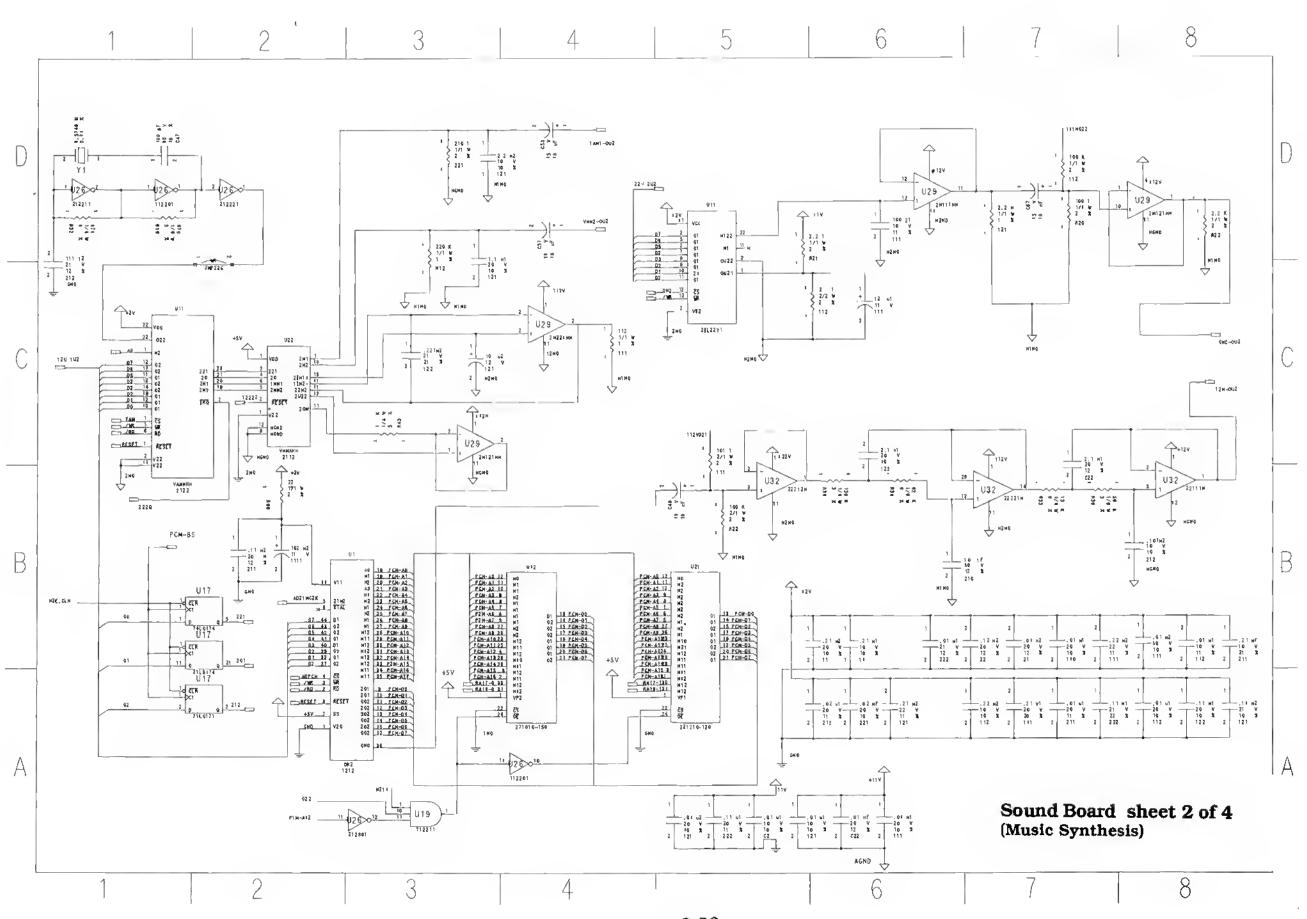


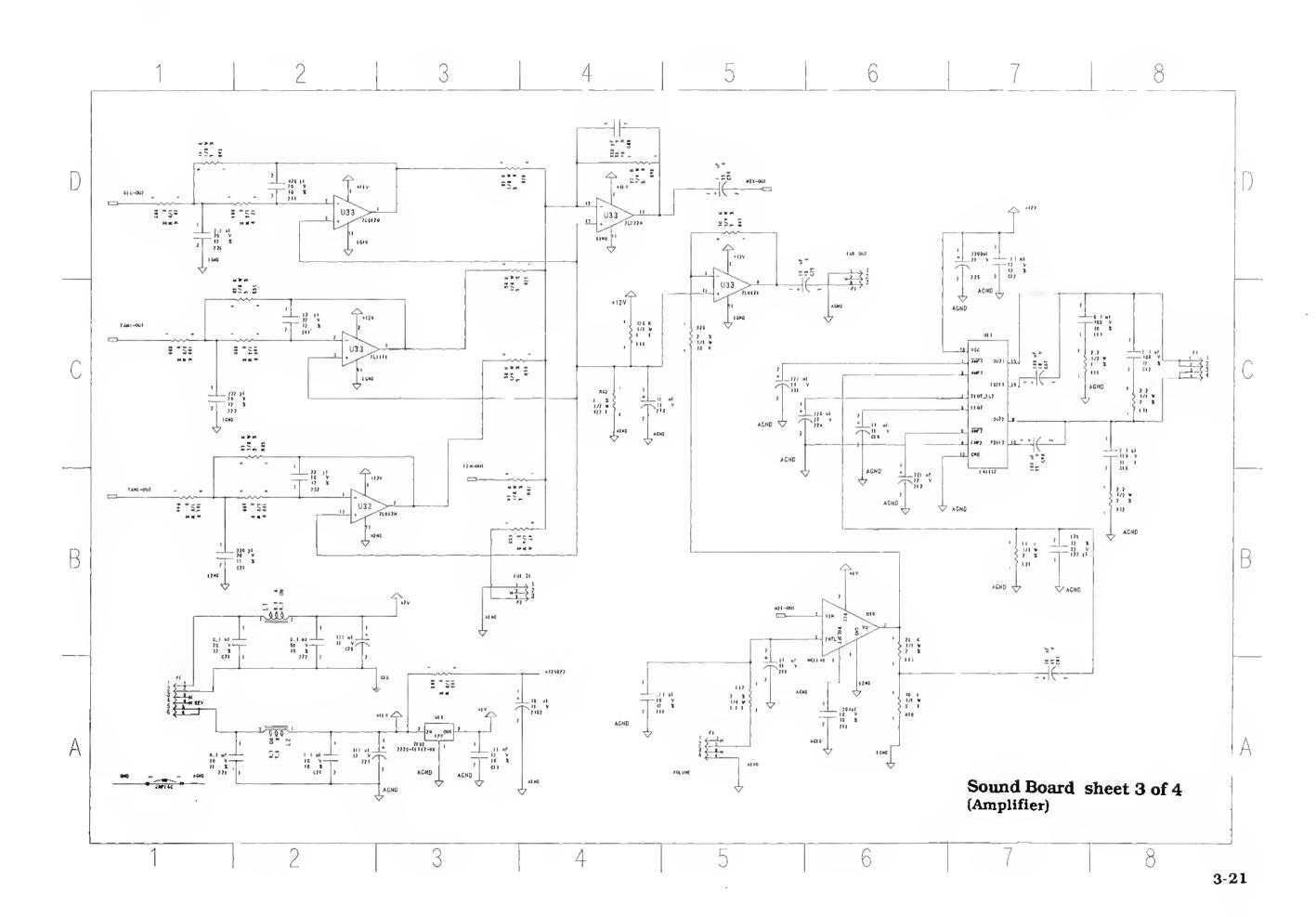
Gun LED Board Schematic



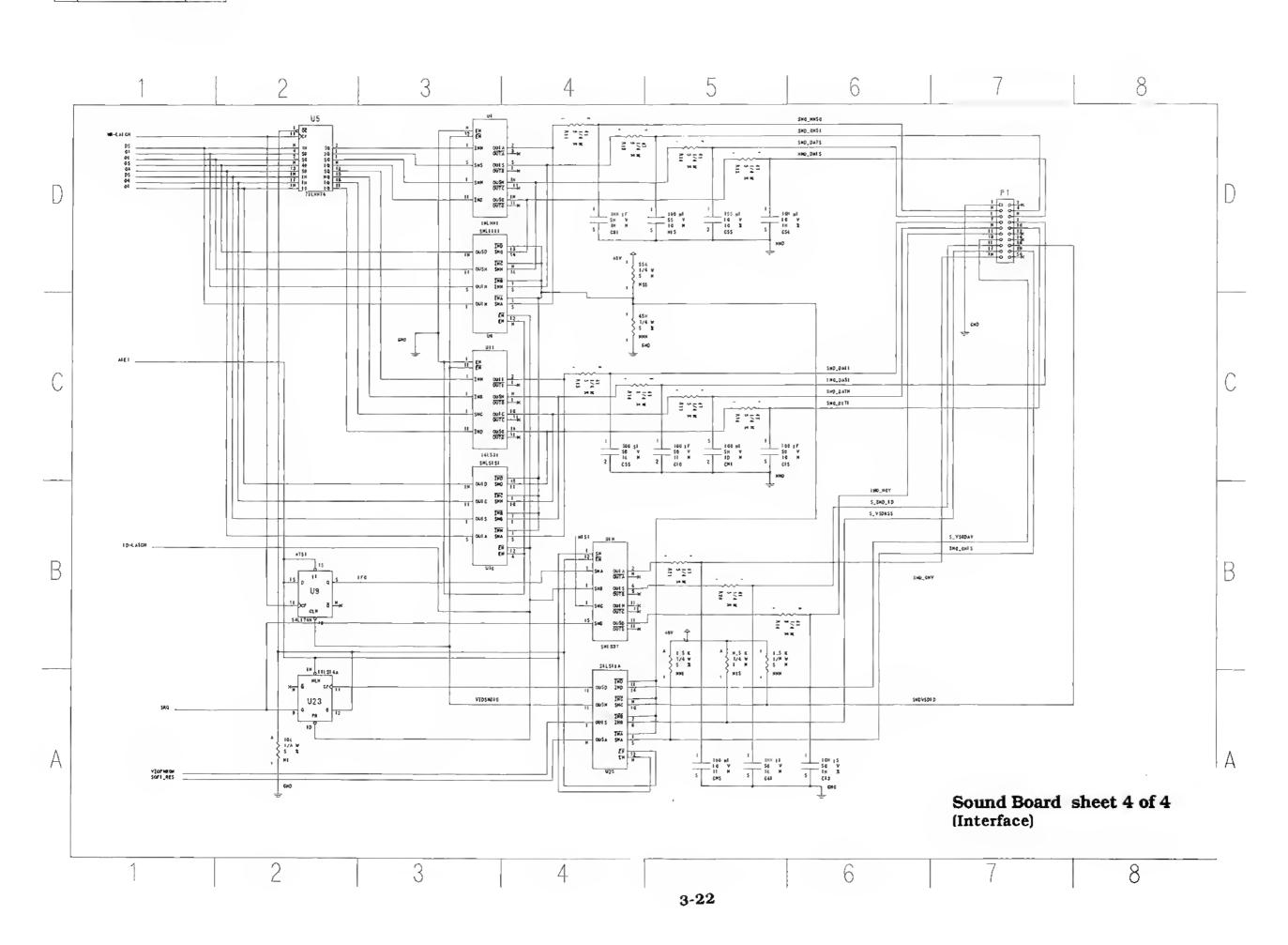


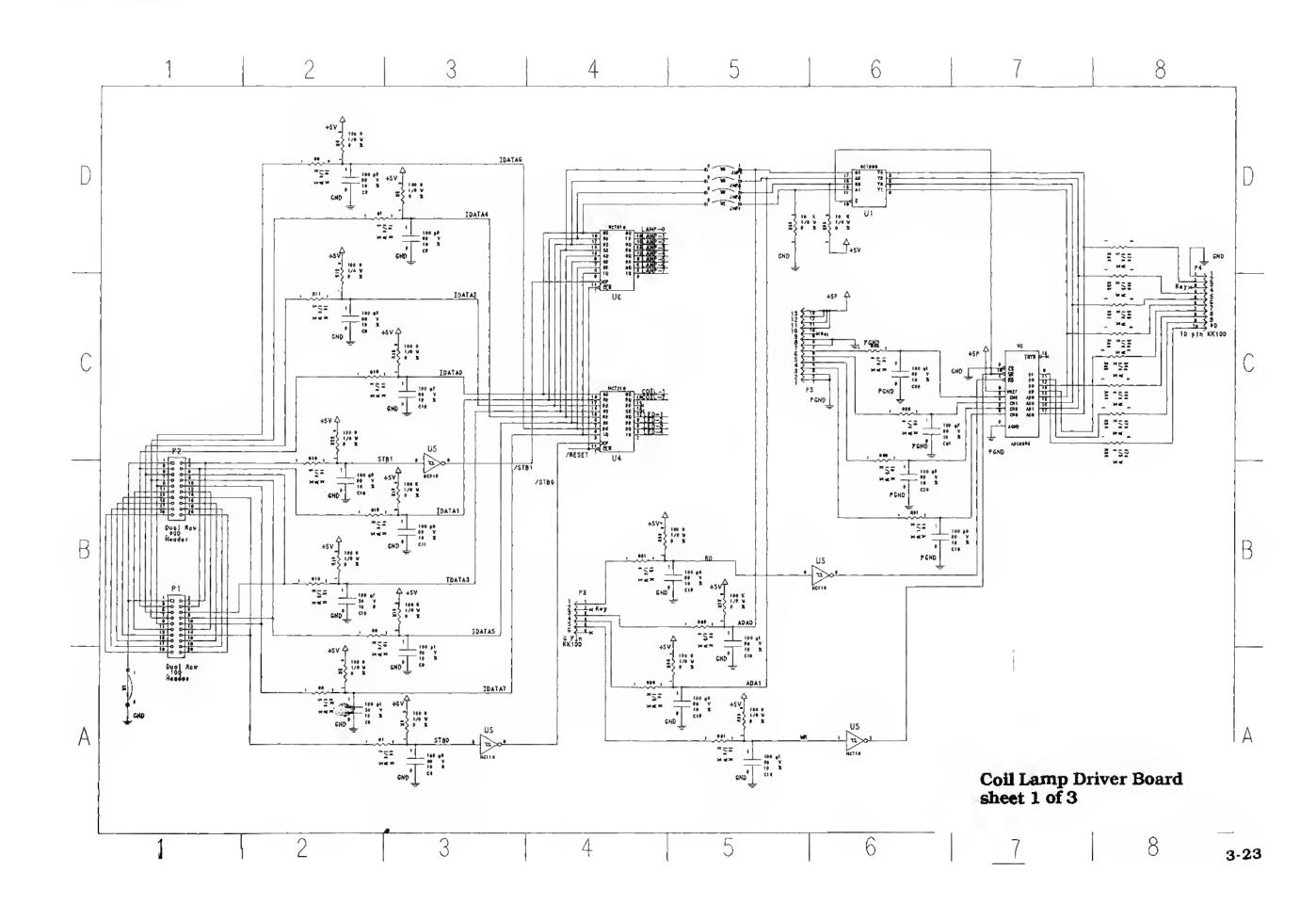
F-V DL

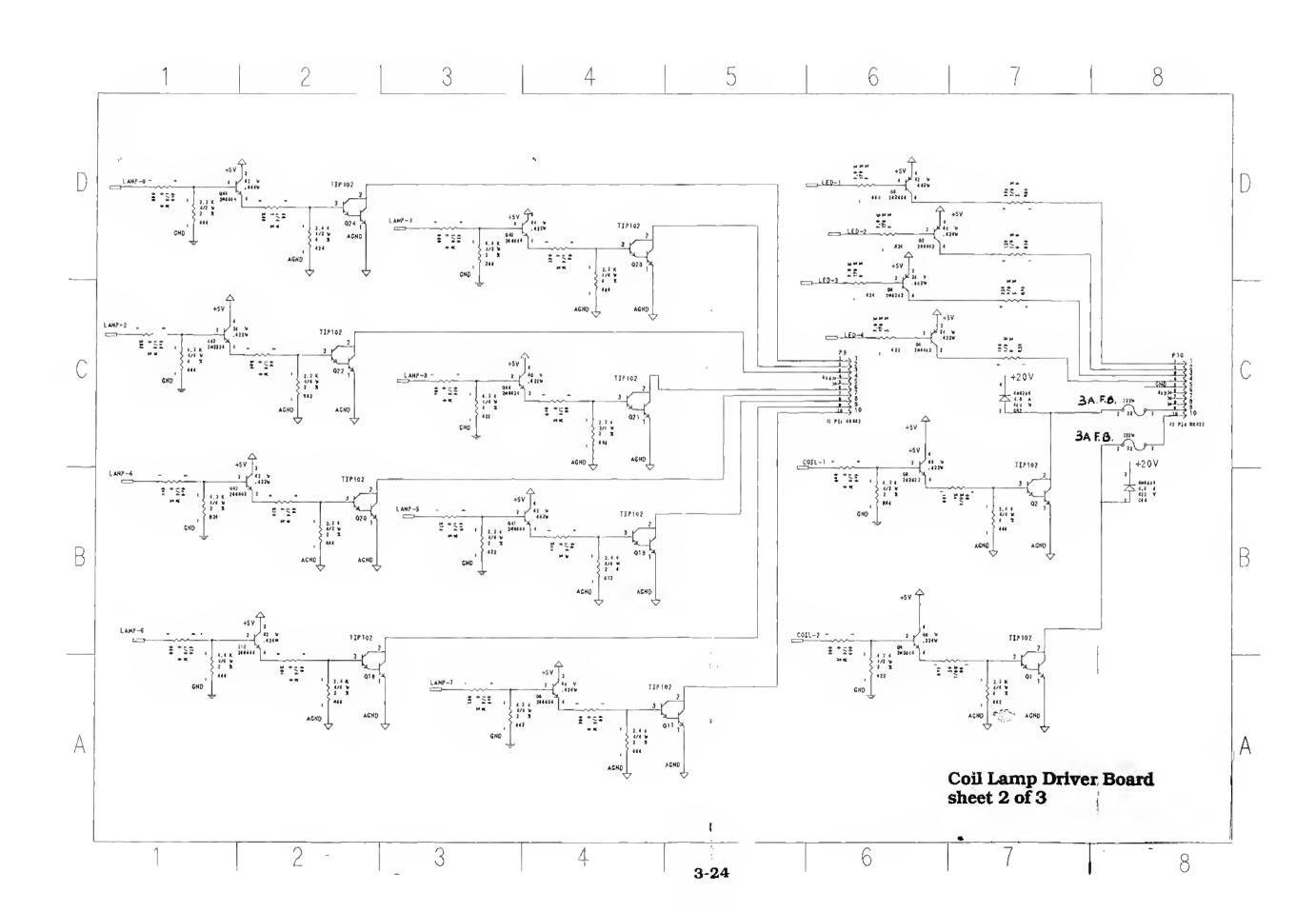


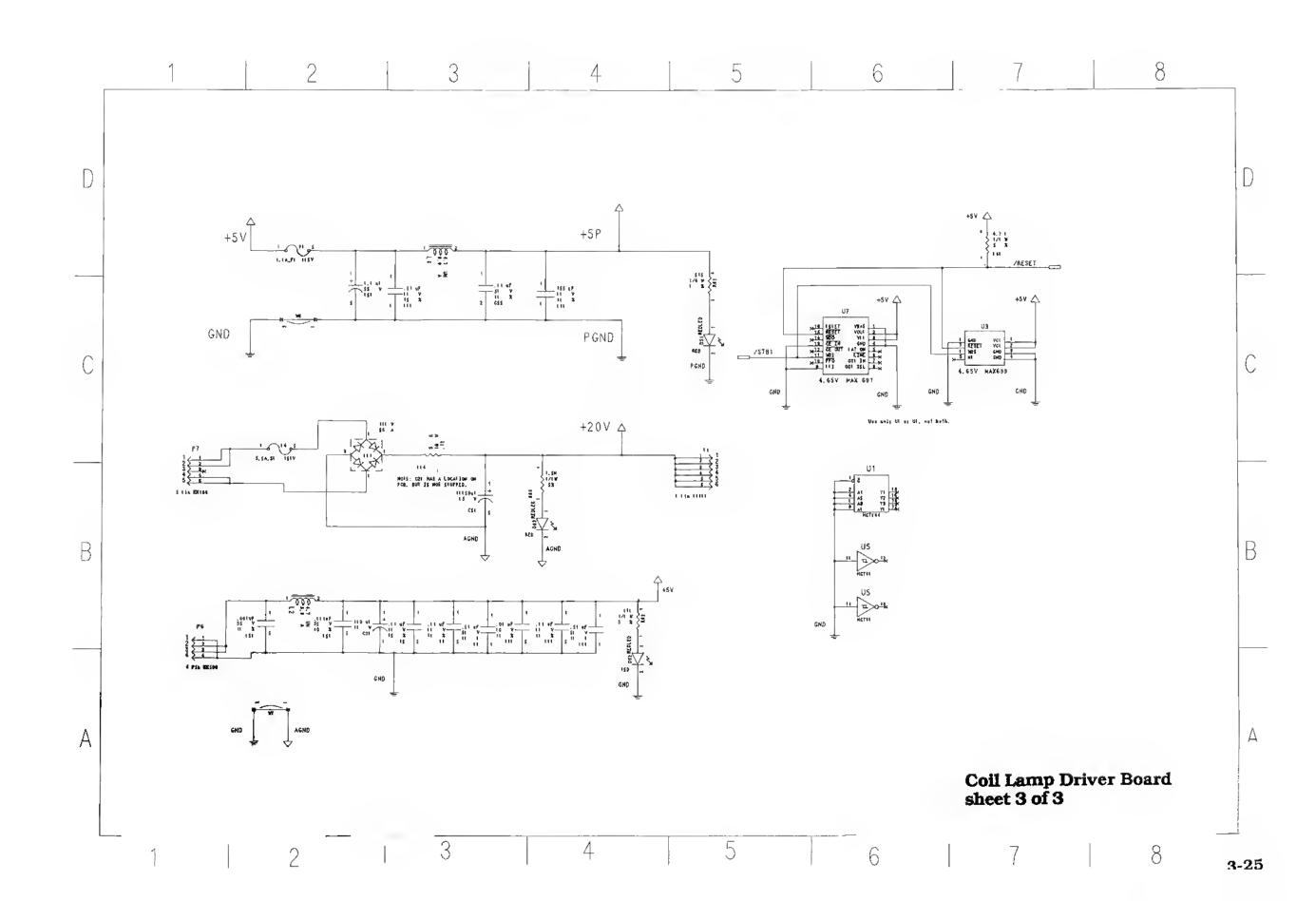


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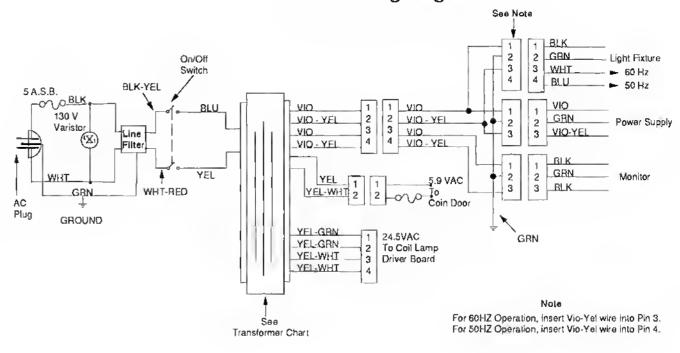




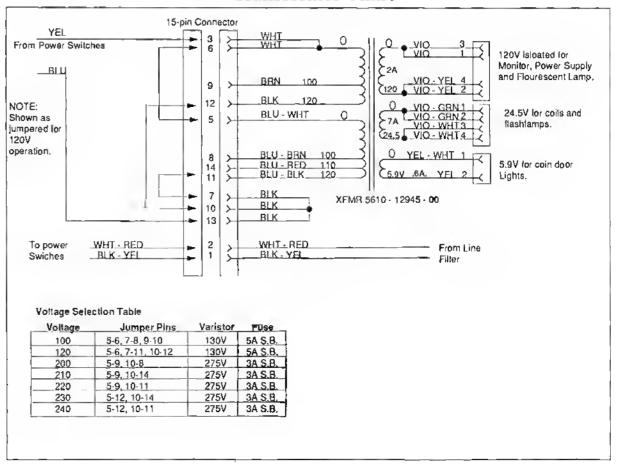
JAMMA Chart

Function	Wire Color	Pin	Pin	Wire Color	Function
Cround	Blk	1	Α	Blk	Ground
Cround	Grn-Brn	2	В	Blk	Ground
+5 Volts DC	Gry	3	C	Cry	+5 Volts DC
+5 Volts DC	Gry 1	4 5	D	Cry	+5 Volts DC
NC	NC	5	E	NC	NC
+12 Volts DC	Gry-Yel	6	F	Gry-Yel	+12 Volts DC
	Key	7	Н	Key	
Counter 1	Wht-Org	8	J	Wht-Grn	Counter 2
NC	NC	9	K	NC	NC
Speaker (+)	Red-Vio	10	L	Crn-Vio	Speaker (-)
NC	NC	11	M	NC	NC
Video Red	Red	12	N	Grn	Video Grn
Video Blue	Brn	13	P	Wht	Video Sync
Video Grd	Shield	14	R	Wht-Red	Service Credit
Test	Crn	15	S	Wht-Vio	Slam Tilt
1 Coin	Wht-Blu	16	T	Yel-Wht	2 Coin
1 Start	Yel-Crn	17	U	Yel-Blu	2 Start
NC	NC	18	V	NC	NC
NC	NC	19	W	NC	NC
NC	NC	20	X	NC	NC
NC	NC	21		NC	NC
1 Fire	Org-Yel	22	Z	Ycl-Vio	2 Fire
1 Bomb	Org-Crn	23	a	Yel-Cry	2 Bomb
NC	NC	24	b	NC	NC
NC	NC	25	C	NC	NC
NC ,	NC DI-	26	d	NC-	NC
Cround	Blk	27	e	Blk	Cround
Cround	Blk	28	f	Blk	Ground

Power Wiring Diagram

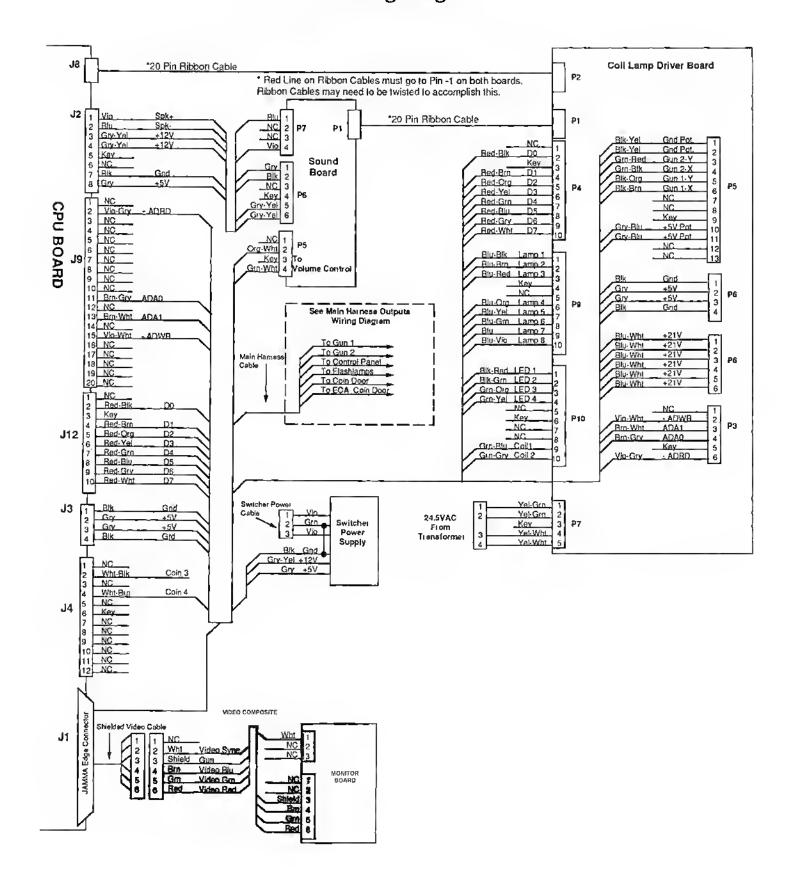


Transformer Chart

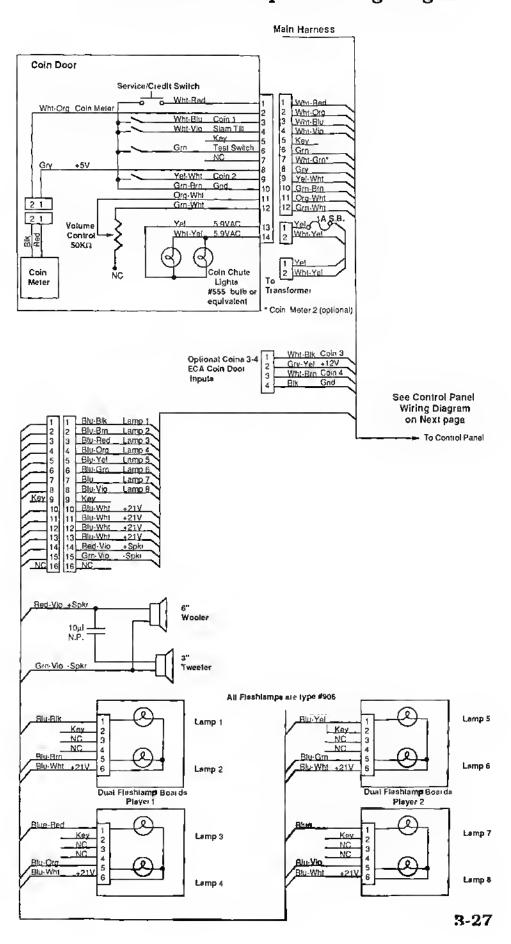


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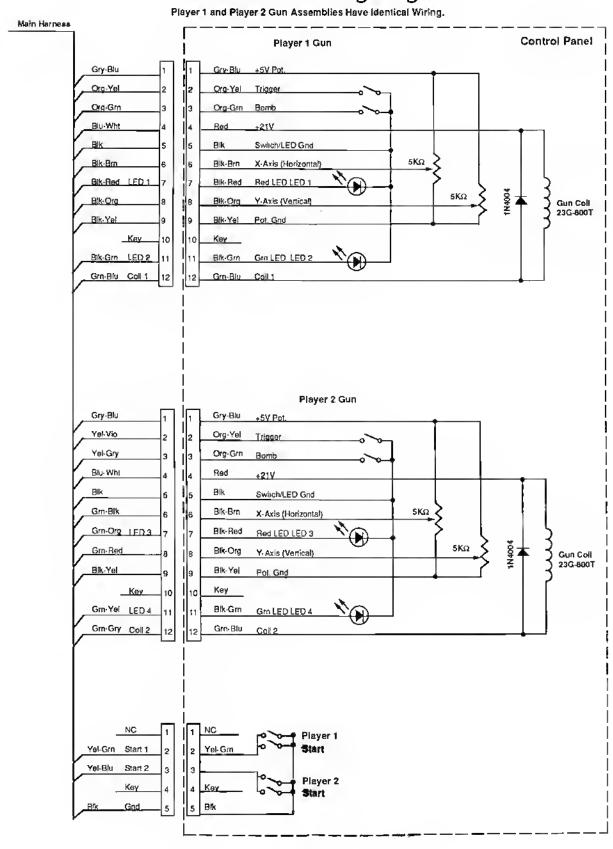
Cabinet Wiring Diagram



Main Harness Outputs Wiring Diagram



Control Panel Wiring Diagram



Notes

PC Board Jumper & Fuse Lists

CPU Board Jumpers

W2, W8, W11, W12, W14, W21, W22, W24, W27, W29, W30, W32, W34, W36, W39, W41, W42, W45, W47, W48, W50, W52, W55, W57, W58, W60, W62, W65, W68, W69, W71, W73, W75, W77, W80, W83

Sound Board Jumpers

W2, W3, W5, W7, W8

Coil Lamp Driver Board Jumpers

W1, W6, W7

Coil Lamp Driver Board Fuses

F1, F2 3A, F.B., 250V

F3 1A, F.B., 250V

F4 7A, S.B., 125V

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